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Saturday 7 September 2013



amateur Photographer

THE WORLD'S NO.1 WEEKLY PHOTO MAGAZINE

www.amateurphotographer.co.uk

SAMSUNG

GALAXY NX

The ultimate flexible system camera



HOW TO

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PLAN A SUCCESSFUL LOCATION SHOOT

Get better pictures by doing
your homework before you go

RETOUCHER'S GUIDE



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EXTREME WIDEANGLES

How to use Photomerge
to broaden your horizons

TECHNIQUE



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DRAMATIC LANDSCAPES

Discover how Mark Littlejohn
creates his atmospheric vistas



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HALF TABLET**


ON TEST

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 Nikon School at Nikon Centre of Excellence, 63-64 Margaret Street, London, W1W 8SW

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Amateur Photographer For everyone who loves photography

WITH Instagram users posting 45 million photos per day, the image-sharing website has helped bring photography to the masses. It has even helped to catch criminals. But there is a sinister downside to a social media age where precious images can be someone else's in less than 60 seconds.

In a week when US police used Instagram to catch criminals after a user had foolishly posted images of guns and cash online, a photographer tells AP how his photo was stolen by an Instagram member who brazenly passed it off as their own (see page 5). Not only that, it went on to win a global contest hosted by Samsung, who was forced to strip the bogus photographer of their title. As copyright breaches

go, it can't get more blatant and it should be red faces all round. But not for the culprit, who seemed immune to the backlash and refused to remove the photo from his Instagram account. The hapless victim was Hengki Koentjoro, a photographer from Indonesia whose work graced the pages of AP last year.

In a world that's awash with (un?)social media, photographers face an ever-present challenge of keeping track of their photos and navigating a path clear of copyright war.



Chris Cheesman
News editor

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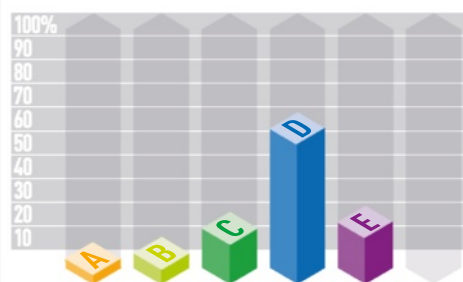
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IN AP 17 AUGUST WE ASKED...

How often do you use the camera on your phone?



YOU ANSWERED...

A It's my only camera	2%
B At least once every day	5%
C At least once a week	16%
D Only if I'm desperate	58%
E I don't have a camera phone	19%

THIS WEEK WE ASK...

Have you ever had your copyright stolen online?

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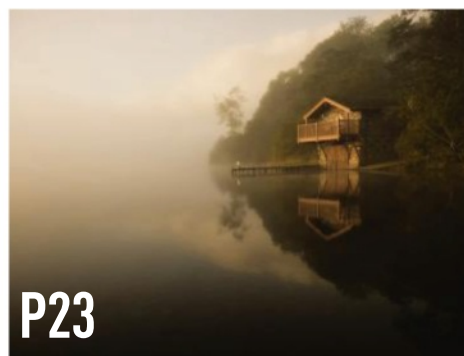
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Cumbria-based landscape photographer Mark Littlejohn is making a name for himself with his moody and dramatic style. Andrew James talks to him about his rapid rise



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Bruce Davidson, who celebrate his 80th birthday this month, is a major figure in American documentary photography, writes David Clark

HOW TO HAVE YOUR PICTURES PUBLISHED IN READER SPOTLIGHT Send in a selection of up to ten images. They can be either a selection of different images or all have the same theme. Digital files sent on CD should be saved in a Photoshop-compatible format, such as JPEG or TIFF, with a contact sheet and submission form. Visit www.amateurphotographer.co.uk/spotlight for details. We cannot publish images without the necessary technical details. Each RGB image should be a minimum of 2480 pixels along its longest length. Transparencies and prints are also accepted. We recommend that transparencies are sent without glass mounts and posted via Special Delivery. For transparencies, prints or discs to be returned you must include an SAE with sufficient postage.

HOW TO CONTACT US Amateur Photographer, IPC Media, Blue Fin Building, 110 Southwark Street, London SE1 0SU **AP Editorial Telephone:** 0203 148 4138 **Fax:** 0203 148 8123
Email: amateurphotographer@ipcmedia.com **AP Advertising Telephone:** 0203 148 2516 **Email:** mark_rankine@ipcmedia.com **AP Subscriptions Telephone:** 0844 848 0848
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D5100 18-55 Kit ... £399.00 £8.19 P/m
D5100 18-55 + 55-200 VR Twin Lens Kit £579.00 £8.49 P/m



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EXPEED 3 Engine
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D7100 + 18-105mm .. £1029.00 £15.09 P/m



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D7000 Body £582.00 £8.53 P/m
D7000 18-105 VR Kit .. £729.00 £10.69 P/m



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17-55 mm f2.8G ED-IF AF-S DX Zoom ...	£1049.00	£15.39 P/m	70-300mm f4.5-5.6G AF-S VR Nikkor	£439.00	£8.19 P/m
18-200mm f3.5-5.6 G ED VR II AF-S	£599.00	£8.78 P/m	80-400 mm f4.5-5.6D ED VR AF Nikkor ..	£1269.00	£18.62 P/m
18-300mm f3.5-5.6 ED VR AF-S DX	£699.00	£10.25 P/m	NEW 80-400mm f4.5-5.6G ED VR	£2399.00	£99.95 P/m
24-70mm f2.8G ED AF-S NIKKOR	£1269.00	£18.62 P/m	200-400mm F4G ED VR II AF-S NIKKOR ..	£4939.00	£72.47 P/m

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35mm f1.4G AF-S	£1349.00	£19.79 P/m	300mm F/2.8G AF-S ED VR II Lens ..	£4045.00	£59.35 P/m
35mm f1.8G AF-S DXs	£159.00	-----	400mm f2.8G ED VR AF-S NIKKOR ..	£7159.00	£105.04 P/m
AF-S 50mm f1.4G Lens	£295.00	-----	500mm f4G ED VR AF-S NIKKOR	£5950.00	£87.30 P/m
50mm f1.8G AF-S NIKKOR	£155.00	-----	600mm f4G ED VR AF-S NIKKOR ..	£7189.00	£105.48 P/m
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£7.48 P/m

TC-17E II Teleconverter



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£7.99 P/m



Nikon SB700 Speedlight
£239.00



Nikon SB910 Speedlight
£359.00 £7.37 P/m



Nikon SBR1 C1 Commander Close Up Speedlight
£579.00 £8.49 P/m

• Winning image stolen online • Entrant stripped of NX300 prize

SAMSUNG WIN QUASHED AFTER COPYRIGHT BREACH

A COPYRIGHT row has broken out after the winner of an online photography competition was accused of stealing the winning image from another photographer and disqualified.

Hengki Koentjoro, a fine-art photographer from Indonesia, says his image was digitally manipulated and flipped horizontally when entered into Samsung's 'Live in the moment' competition, which is giving away an NX300 camera to four category winners.

The controversial image had seemingly been entered by an Instagram member using the online name 'bogdhan', who has since been attacked in comments made by other users of the image-sharing website.

The photo was submitted to the 'MyCommute' section of the contest earlier this summer.

Koentjoro, whose work was featured in AP last year, says he was only made aware of copyright theft following a tip-off from a friend a week later. Koentjoro called for more



The original 2009 image by Hengki Koentjoro

education about copyright among the general public.

He told AP: 'Let's warn other photographers to be careful with their work.'

At the time of writing, the Instagram user in question could not be reached for a response following a request sent by AP via the comments section of his online account.

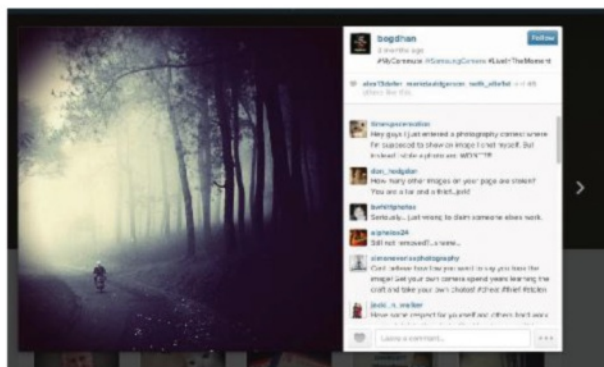
Contest rules allowed entrants to submit photos via Facebook and Instagram.

Koentjoro said future competition organisers should demand to see raw-format image files.

Koentjoro received a statement from Samsung that read: 'Thank you for alerting us in regard to this issue. We take copyright infringement very seriously and it is very unfortunate that [the] present case has taken place. We have disqualified the applicant [sic] of this picture, and he is no longer the winner of the contest – neither will he receive the prize.'

'Further, we have taken down the announcement from all our channels.'

Samsung did not make any further comment on the issue when approached by AP.



The image as it appeared on the page of an Instagram user who was accused of breaching Koentjoro's copyright

SNAP SHOTS

● Police in the United States have used Instagram to identify criminals involved in what is reported to be 'the largest gun bust' in the history of New York City. A member of the ring allegedly used the image-sharing site to post images of guns and wads of cash, which reportedly led police to track down his accomplices.

● An 18-month-old girl died after falling into a fast-flowing river while her father had reportedly been taking family holiday photos in India. Dr Megha Reddy from Wolverhampton said his daughter Manvi slipped from his arms during a holiday to visit relatives near Hyderabad, according to the *Sunday Telegraph* on 18 August.

KODAK EMERGES FROM BANKRUPTCY PROTECTION

EASTMAN Kodak will live on as a smaller company focusing on markets such as commercial printing, after its emergence from Chapter 11 bankruptcy protection, which has been approved by a court in the United States.

As we went to press, Kodak CEO Antonio M Perez said the firm expects to leave bankruptcy protection status on 3 September, after which it will serve

commercial imaging markets such as printing and packaging.

The news is unlikely to have much impact on consumers, however.

Kodak is in the throes of selling its Personalized Imaging business, which includes photo kiosks, film and photographic paper, to thousands of former Kodak employees.

The firm has already decided to stop

selling consumer inkjet printers.

Although it no longer makes its own cameras, the brand continues on new, fixed-lens digital cameras made by US firm JK Imaging under a licensing agreement.

Plans also exist for an interchangeable-lens camera in the coming months.

In 1975, Kodak was famously credited as inventing the first digital camera, but it was overtaken by rivals.



Do you have a story?

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Tel: 0203 148 4129
Fax: 0203 148 8130
amateurphotographer@ipcmedia.com

A week of photographic opportunity

PHOTODIARY

Wednesday 4 September

EXHIBITION Dan Budnik *Marching to the Freedom Dream*, until 21 September at Trolley Books, London W1W 7EG. Tel: 0207 729 6591. Visit www.trolleybooks.com. **EXHIBITION** on scientific photography by Royal Photographic Society and the Science and Technology Facilities Council, until 30 September at Great North Museum: Hancock, Tyne and Wear NE2 4PT. Tel: 0191 222 6765. Visit www.twmuseums.org.uk.

Thursday 5 September

EXHIBITION A Clarion Call by Arwyn Bailey, until 30 September at Rhubarb & Custard Photo Gallery, Berkshire SL4 6DB. Tel: 01753 860 996. Visit www.rhubarbandcustard.biz.



EXHIBITION 3D photography, last day at Gurjar Hindu Union, Apple Tree Centre, West Sussex RH11 0AF. Tel: 01293 530 105.

Friday 6 September



EXHIBITION True Colours by photographers including Steve McCurry and Martin Parr, until 5 October at Atlas Gallery, London W1U 7NF. Tel: 0207 224 4192. Visit www.atlasgallery.com.

DON'T MISS Getting Started with DSLR Film Making (10.30am-5pm, cost £169) at Nikon School, London W1W 8SW. Tel: 0330 123 0934. Visit www.nikon.co.uk/training.

Saturday 7 September

DON'T MISS Getting Creative with D7000/D7100 (10.30am-5pm, cost £149) at Nikon School, London W1W 8SW. Tel: 0330 123 0934. Visit www.nikon.co.uk/training. **EXHIBITION** Solo Exhibition by Indr Serpytyt, until 12 October at Fotogallery, Penarth CF64 3DH. Tel: 029 2070 8870. Visit www.fotogallery.org.

Sunday 8 September

EXHIBITION Somewhere in England: Portraits of Americans in Britain 1942-1945, until 31 December at IWM Duxford, Cambridgeshire CB22 4QR. Tel: 01223 835 000. Visit www.iwm.org.uk. **EXHIBITION** Sebastião Salgado: Genesis, last day at the Natural History Museum, London SW7 5BD. Tel: 0207 942 5010. Visit www.nhm.ac.uk.

Monday 9 September

EXHIBITION Visions of the Universe (images of space), until 15 September at National Maritime Museum, Greenwich SE10 9NF. Tel: 0208 858 4422. Visit www.rmg.co.uk. **EXHIBITION** Julian Lennon, until 20 October at The Little Black Gallery, London SW10 0AJ. Tel: 0207 349 9332. Visit www.thelittleblackgallery.com.

Tuesday 10 September **LATEST AP ON SALE**

EXHIBITION Pictures from the Real World by David Moore, until 15 September at Third Floor Gallery, Cardiff CF10 5AD. Tel: 02921 159 151. Visit www.thirdfloorgallery.com. **EXHIBITION** Street Life, Instantaneous (photos of Newcastle in the 1890s) by Edgar G Lee, until 12 October at Side Gallery, Tyne and Wear NE1 3JE. Tel: 0191 232 2208. Visit www.amber-online.com.

BARNARDO'S DENIES PLAN TO DESTROY ARCHIVE

BARNARDO'S denies that it plans to destroy its historic archive of half a million photographs, but the children's charity accepts it must find a new home for thousands of images.

The charity was responding to an online petition calling on the UK Government to save 500,000 original Barnardo's images and 300 films dating back to 1874, amid fears that the charity is set to destroy them as part of a digitisation plan.

The alert followed an article that appeared on the British photographic history website.

The collection includes a visual history of Barnardo's work in Canada and Australia and a 'very rare' ambrotype of Dr Barnardo with children.

Among those backing the petition was Thelma Eley from Australia.

In a blog accompanying the petition, she wrote: 'There is a direct emotional impact when a person touches a photo of themselves or a family member.'

'It links them back in time directly, far more so than a digitised version or a copy of a photo.'

'There is something different about an original photograph. It is vital that these photos be saved in their original form.'

The petition, drawn up by Geoff Barker of Sydney, Australia, has so far won more than 1,200 signatures.

However, Barnardo's says the fears on which the protests were based are misplaced.

'We are not going to destroy our photographic archive,' insisted a



Barnardo's spokeswoman.

Barnardo's has confirmed that it plans to digitise 200,000 images as part of a preservation project to bring its entire archive together in one location.

It says it is working with the National Archives and 'also exploring where the archive might be housed in future'.

This forms part of a plan to modernise the charity's base in Barking, Essex.

In a statement, it added: 'Until a decision is made on the permanent new home for the whole archive, Barnardo's is seeking an arrangement with the company which is digitising its oldest images that need to be kept in a climate-controlled environment, to look after them in the short term.'

'The remainder of the archive, which does not need special storage, will stay with the Barnardo's team for the moment.'

Interest generated by the online commotion may have helped secure the archive's future.

Barnardo's tells AP that the petition quickly led to 40 offers to rehouse part of its archive as a direct result.

RARE BEATLES PHOTOS PULLED FROM AUCTION

RARE photos of the Beatles, including precious images discovered on a film found inside a camera belonging to the band's official photographer after he died, have been pulled from sale.

Auctioneers were poised to sell more than 40 Beatles images at Cuttlestones in Wolverhampton on 16 August. However, an auction house spokesperson said the images were 'temporarily withdrawn' at the request of the vendor, who wanted to remain anonymous.

The 'significant' archive includes 34 shots that had remained undiscovered in Derek Cooper's camera until 10 years after the photographer's death in 1983.

It was to have been the first time that prints of the negatives were offered for sale on the open market.

It is not known whether the auction will be rescheduled.

'They [the vendor] wanted to delay it,' said the auction spokesperson.

'It's not unheard of for people to have a change of heart.'

John Lennon, Paul McCartney, George Harrison and Ringo Starr featured in the pictures, which ranged from informal backstage shots, to formal portraits and photos taken on Beatles tours.

The archive had been expected to attract international interest.

SNAP SHOTS

● Jessops plans to open a store in Bromley, south-east London, under the chain's new boss Peter Jones. A spokesperson for Jessops Europe said the store will be based on Bromley high street and is expected to open 'in the not too distant future'. Eight staff reportedly lost their jobs when the Bromley store shut down in January. Peter Jones has so far reopened 27 Jessops stores – the first being the outlet in Oxford Street, London, which was relaunched at the end of March.

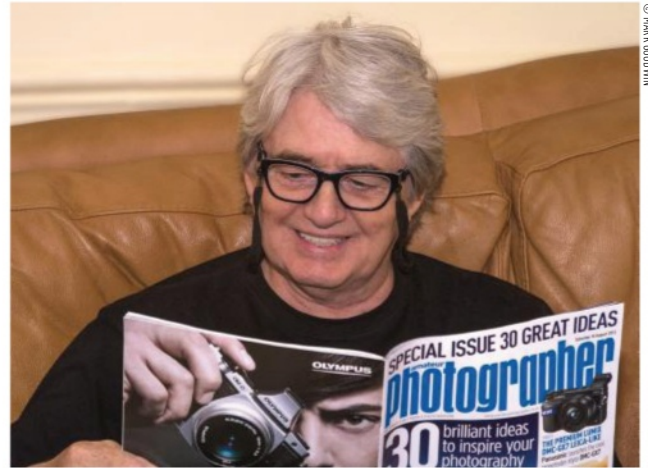
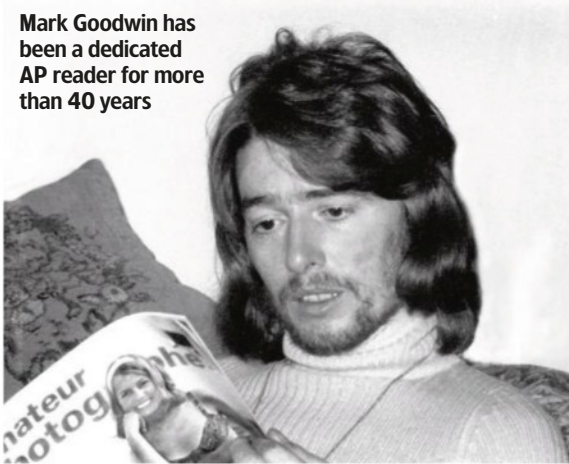
● Police have refused to be drawn on details of electronic items seized from the partner of a *Guardian* journalist at Heathrow, which reportedly include a camera. Police temporarily held David Miranda, the partner of Glenn Greenwald, under anti-terror laws on 18 August. Greenwald has recently worked on high-profile articles about US surveillance programs. A Metropolitan Police spokesman told AP: 'We are not getting involved in saying what items may or may not have been taken.'



Do you have a story?

Contact Chris Cheesman
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Fax: 0203 148 8130
amateurphotographer
@ipcmedia.com

Mark Goodwin has been a dedicated AP reader for more than 40 years



© MARK GOODWIN

MUSICIAN CREDITS AP FOR RPS GONG

A MUSICIAN who took his camera on tour with 'King of Skiffle' Lonnie Donegan says that reading AP has helped him win a Royal Photographic Society accolade.

Mark Goodwin, who was a drummer with the Lonnie Donegan Skiffle Group, ensured that he always carried a camera when touring the globe with Donegan, who died in 2002.

Donegan rose to fame in the 1950s and was best known for novelty songs such as 'My Old Man's a Dustman'.

Goodwin, who was with Donegan's band until 1973 and is now aged 71, says that gaining an LRPS Distinction in July is 'proof' that reading AP has made him a 'better photographer'.

Photography became a second passion after music – inspiring him to capture

thousands of images while visiting entertainment hotspots such as Las Vegas.

Goodwin started to take up photography seriously in 1978 and now specialises in nature and British wildlife photos, using his Nikon D3S and D2X DSLRs.

'I had to work pretty hard to gain this distinction and it means a great deal to me. I feel it's a sign of recognition for all the hard work and study over the years,' said Goodwin, who has been reading AP for more than 40 years.

He added: 'When I was a pro musician, practice was part of my job. I would do it every day for at least two hours, but I had been doing that since I was 12 years old and didn't know anything else.'

'Learning photographic techniques, including wet-darkroom and now digital,

has been both enjoyable and very taxing, but *Amateur Photographer* was never very far away.'

Having had access to many well-known figures in the music business over the years, he plans to publish previously unseen images in a photobook.

The photographer has set up a studio at his home near Chepstow and started to digitise

an archive of thousands of images, including four rolls of b&w film of Abba at the Albert Hall, London, in 1978.

Goodwin, who describes himself as a 'semi-professional' photographer, explained that he was given exclusive access to photograph Abba in his job as a promotions manager for record label CBS. He also documented Ray Charles in Hamburg.

A photo of a butterfly that helped Mark win an LRPS Distinction



© MARK GOODWIN

'RESOLUTION' PRIORITY FOR ENTHUSIASTS

IMAGE resolution is the most important factor when buying a digital camera, with features such as face detection and GPS ranking lowest, reveals a worldwide survey of photography enthusiasts.

The *Rise of the Amateur* survey, conducted in March 2013, shows that the older the photographer, the more importance they place on resolution, with those aged 45 and over considering image sharpness and detail the top priority.

Photographers aged 30 and under, however, said they believed high ISO/low-light performance were more important in influencing their purchasing decision.

On average, the second most important factor was focusing speed and accuracy,

according to the results of a poll conducted by the Photo Marketing Association (PMA) and photography website DP Review.

Camera brand, continuous shooting capability and live view were placed well down the table of importance when choosing new kit – positioned 14, 15 and 16 respectively from a total of 20 factors enthusiasts were asked to rank in degrees of significance.

GPS was deemed to be the least important factor across all age groups, while the inclusion of user-friendly features such as face detection, subject modes and 'intelligent auto' ranked second from bottom.

The survey, which pulled in more than 5,100 responses from US and non-US

countries, reveals that mirrorless system camera ownership rose 13% compared to a year earlier.

Enthusiasts aged 45–55 were the largest group to own a DSLR, while those aged 55 and over were most likely to own a non-SLR, interchangeable-lens camera.

The number of enthusiasts taking pictures daily, or several times per week, using a mobile phone grew 10% over the 2012 figure.

Almost 11% of enthusiasts said they had 'completely switched from a compact camera to a mobile device, and more than 20% have partially switched'.

Nearly all of those who responded (96%) were male.

AP
THIS
WEEK
IN...

1930

Those yet to be inspired to take up a sporting activity – despite British success at last year's London Olympics – may put a spring in their step if they splash out on a movie-equipped camera, if an advert that appeared in AP this week in 1930 is to be believed 83 years on. Under the banner 'Film your Speed Sports with a Ciné-"Kodak"', the advert claimed: 'Your sports, sir, no matter what form they take, motor boat or motor bike, cruising, sailing, touring, tramping or just playing tennis, will take on an added interest, a new zest, if you take up cinematography, too.'



CLUBNEWS

Club news from around the country

WHITLEY BAY PHOTOGRAPHIC SOCIETY

The Society says its new season begins on 10 September at 7.30pm and welcomes new members, ranging from beginners to more advanced photographers. Visit www.wbps.co.uk.

SEVENOAKS CAMERA CLUB

An exhibition entitled 'Capturing Sevenoaks' takes place from 3-22 September at Knole, Sevenoaks, Kent TN15 0RP. For club details visit www.sevenoakscameraclub.org.uk.

SNAP SHOTS

● Marumi has unveiled a new line of photographic filters. The Japanese-made Exus series comes in 13 different diameter sizes, from 37mm to 82mm, featuring new 'antistatic and anti-reflective qualities', according to Marumi. Prices for the Exus Lens Protect filters range from around £52 to £120. The Exus Circular Polariser filters cost from around £119. For details, contact UK distributor Kenro on 01793 615 836 or visit www.kenro.co.uk.

● As smartphones continue to eclipse lower-end digital compact cameras, LG has unveiled a model featuring a 13-million-pixel camera and optical image stabilisation. The LG G2 also comes with a 5.2in 'full HD' screen, multi-point AF and a non-protruding lens, according to the firm. Other features include a 'Super Resolution' mode. The G2 is expected to go on sale shortly.



A Canon EOS 5D Mark III used by Jason P Howe after an assignment in Afghanistan

Safety classes for conflict zones

PHOTOGRAPHERS' WAR WORKSHOP

TOO many photographers and journalists operate in hostile conditions without the necessary skills, claim organisers of a new 'conflict photography workshop'.

Pulitzer Prize winner Javier Manzano and photojournalist Eric Bouvet, winner of five World Press Photo awards, are set to pass on their experience and skills in a workshop, due to take place in Andalusia, Spain, from 6-12 November.

Organised by Jason P Howe and Martin Middlebrook, the course will cover areas such as assignment planning, first-aid drills, 'IED awareness', and filing photos from the battlefield.

The workshop's website states: 'No professional soldier is sent to a war zone without extensive training.'

'Photographers who operate in exactly the same battle space

without any training, experience or proper preparation put themselves in increased danger and potentially put others around them at risk too.'

The training will familiarise participants with possible threats and 'educate them on how to deal with these dangers and to work with a higher degree of safety and security'.

The workshop costs €1,500 including accommodation and meals (ration packs will be provided during field exercises).

More than 1,100 journalists and other media staff have been killed over the past 12 years, according to the International Federation of Journalists, which campaigns for greater safety and monitors press freedom violations.

For more details, visit www.conflictphotographyworkshops.com.

UK PHOTO MARKET SEES DIP

UK photographic sales fell nearly 22% in June, the largest drop so far this year, despite online sales rising 1.4%.

The GfK figures, which compared June 2013 to the same month a year earlier, are similar to the first quarter of the year when sales fell 21% in all three months, before better results were seen in April and May.

The Market-i report, compiled by GfK Retail and Technology UK, says: 'Fixed-

lens [compact] sales continue to be hampered by the development of smartphone cameras, high ownership levels and the move to premium.'

It adds: 'The changeable-lens sector has seen a move to entry-level models subduing value growth, but accessory areas focused on changeable-lens cameras should receive a boost from the volume demand generated.'

The value of the UK photographic market fell by 18.9% in the first half of 2013, compared to the same period a year earlier.

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Sony Alpha Centres of Excellence

Richard Sibley visits Pantiles Cameras in Tunbridge Wells, and speaks to manager **David Podbury**

'BEING a Sony Alpha Centre of Excellence is a really positive thing for us,' says David Podbury, manager of Pantiles Cameras in Tunbridge Wells, Kent. 'It means that Sony recognises our excellent customer service and gives people the confidence to visit us for advice on Sony cameras and accessories.'

Each member of the team at Pantiles Cameras is familiar with the entire Sony range of cameras, which means they can help advise customers on the best camera for them, and help them understand the various features of each model.

A dedicated section of the store allows customers to see the entire range of Sony cameras on display, with class-leading products like the Sony Cyber-shot DSC-HX50 and Cyber-shot DSC-RX100 II extremely popular, says David. 'With a 30x optical zoom, the HX50 is a belting compact camera, and we've also had phenomenal sales of the RX100 and RX100 II. But it isn't just cameras: we keep a large range of Alpha and E-mount lenses in stock too, so customers can come along and try them on their Alpha or NEX cameras. The Sony Carl Zeiss 24mm f/1.8 E Mount lens is a really great product that people have been keen to see.'

However, being a Sony Alpha Centre of Excellence isn't just about having products on display. Pantile Cameras also hosts specific Sony Days where members of the Sony Training team come down to help customers out and offer advice on the range of Sony products, and how to get the most out of them.



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Kent
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APReview

The latest photography books, exhibitions and websites. By Jon Stapley



BOOK

Pierdom

By Simon Roberts
Dewi Lewis Publishing, £35,
hardback, 160 pages, ISBN
978-1-907893-40-7

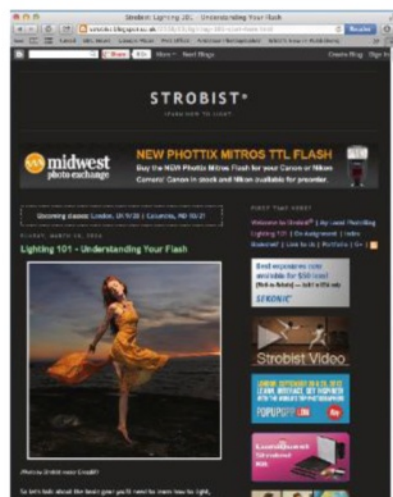
THE AGE of the leisurely promenade along the pier has, for many, come to an ignominious end. Once essential parts of any seaside town, these structures are now frequently to be found faded, decrepit, abandoned or even vanished entirely. Simon Roberts' book feels at times like a eulogy to the pleasure pier. While many of the piers are still active, their lustre has clearly faded. It's the ones in disrepair that provide the most memorable images, such as the unmistakable skeleton of Brighton's West Pier, or the fire-ravaged shell of Hastings, plastered with posters warning of dangerous falling debris. Keeping the photography varied is clearly a challenge, but Roberts rises to it fairly well, finding creative angles and vantage points from which to shoot.



© SIMON ROBERTS

WEBSITE

www.strobist.blogspot.co.uk



THIS site's statement of intent is 'Learn how to light', and its introductory post clarifies that the specific focus is off-camera flash. You might have to dig a little before you get to the teaching material, but you'll be sifting through a lot of good content. News posts, reader profiles, gear announcements – it's all here and makes for a diverse site. The 'On Assignment' posts are standouts, with photographers taking readers through portrait sessions and explaining the various challenges and what they learned from them. Sometimes the focus drifts away from lighting, but never so far that it seems rambling or irrelevant. The site has built up a solid community, with more than 100,000 members on Flickr.



© SIMON ROBERTS



© ALEX MAJOLI/MAGNUM PHOTOS

Trolleyology: The First Ten Years of Trolley Books

With text by Julia-Peyton Jones
Hans Ulrich Obrist and Barry Miles
Trolley, £35, hardback, 464 pages,
ISBN 978-1-907112-43-0



BOOK

TROLLEY Books was the brainchild of charismatic publishing icon Gigi Giannuzzi, who oversaw a number of dynamic photobooks coming to print until his death from cancer in 2012. This book focuses on the first decade of Trolley Books, and manages to be both a loving tribute to its founder and a collection of seriously top-quality photography. The number of contributions from both writers and photographers is absolutely massive, and there are some fantastic moments to revisit – Zed Nelson's Gun Nation hits, if anything, harder today than it did in 2000. The testimonies to Gigi are glowing and cement his status as a seminal figure in photobook publishing.



Indre Serpytyte

7 September-12 October. Ffotogallery,
Turner House, Plymouth Road, Penarth,
Cardiff CF64 3DH. Tel: 029 2070 8870.
Website: www.ffotogallery.org. Open
Tue-Sat 11am-5pm. Admission free

AS LITHUANIA'S presidency of the European Union progresses, Ffotogallery invites Indre Serpytyte, winner of the Jerwood prize for photography in 2006, to explore themes of memory and loss in relation to her home country. The series that won Serpytyte the Jerwood prize, *A State of Silence*, features still-life images that suggest remnants of bureaucratic systems: discarded uniforms and old, disused rotary phones. Her more recent series focuses more closely on Lithuania's time under the Soviets, visiting sites that house the resistance and transforming the remnants into stylized photographs. Although the images themselves are comparatively simple, there's a lot going on under the surface. Despite its scope, this feels like a very personal exhibition.

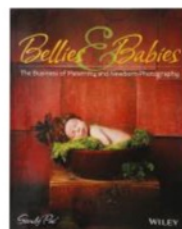
EXHIBITION



BOTH PICTURES © INDRE SERPYTYTE

CONDENSED READING

A round-up of the latest
photography books on the market



● **BELLIES & BABIES** by Sandy Puc', £23.99 If you're looking to get into photography as a business, then the baby portrait market may be an avenue to explore – it won't do your stress levels any good, but every parent wants photos of their newborns. This guide from Sandy Puc', who has an apostrophe in her name, is more focused on the business and people-handling side of things than the photography, but it's all important stuff and worth knowing. ● **SHORE**



TO SUMMIT by Fran Halsall, £20 'First and foremost, I am an artist, not a geologist,' writes Fran Halsall in the introduction, and accordingly the images in her photographic geological guide to Britain and Ireland are generally very good. Halsall has an eye for a vista and a talent for making the best of bad weather, which Britain and Ireland appear to have provided in spades. Despite her opening claim, there is plenty of geological information to be found, and the book strikes a good balance between dynamic images and information.



● **THE ELITE BICYCLE** by Gerard Brown and Graeme Fife, £35 A bicycle is a beautifully engineered machine, and the competitive racing scene means there will always be people seeking to improve it. Gerard Brown and Graeme Fife meet the best in the field, and in doing so make a lot of excellent photography. Seeing the factories in which these machines are put together is interesting, and even non-cyclists should be able to appreciate the level of craftsmanship involved. A slick and fascinating tour of engineering excellence.

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Letters

Share your views and opinions with fellow AP readers every week

LOYALTY POINTS

I always find polls hard to deal with, as they never ask the right questions. So it is with the AP 'brand loyalty' poll in AP 24 August. The question that would have been really worth answering is: 'Why are you loyal to a brand?'

My answer is along the lines of: 'I have a lot of lovely prime lenses. I don't want to have to spend three or four times as much as a camera body on a load of new lenses.' Mix in a little, 'I don't want to have to learn a completely different set of controls,' and maybe a touch of, 'And this one works perfectly well,' too!

In terms of quality, there's more of it in most cameras than most togs can use. I have no idea why people change cameras just because the latest new model has an extra megapixel, or more focus points. For real improvements in quality, ditch the standard consumer zoom and get a second-hand prime lens or two.

Then settle in and wait, because even if the latest Brand X is actually better than the two-year-old Brand Y, the next model will once again edge ahead. It's about percentages, not a clear knockout.

John Duder, West Midlands

It is difficult to cover all the answers in our brief polls, so we appreciate it when readers write to us and explain their answers fully – like you! Thanks, and I'm sure many fellow readers agree with you –
Debbi Allen, deputy editor

WHY I MOVED ON

I read Richard Sibley's editorial in AP 24 August with interest; what would make a photographer loyal to a brand even consider switching to another? I switched brands about six years ago, and it was, initially at least, a painful wrench. I was a loyal Pentax user for the best part of 25 years, with a MX. What's not to like about it? A deadly accurate meter, simple to use, lightweight but strongly built, top-quality lenses and then, when I got into wildlife photography, I was able to acquire a 5fps motordrive as well.

But there was the rub: I got into wildlife photography. Have you ever tried taking shots of birds in flight using a manual focus lens? I have, I did. It's not easy. The wastage rate is severe. And I saw those around me using continuous autofocus to get frame after frame sharp while I was lucky to get one in ten with the pre-focus-and-hope method. It was clearly time to re-assess my needs.

The Pentax current at the time was the K10D, with the 300mm f/4 DA* lens just announced, but I discovered that the pair simply would not support predictive autofocus. So I decided it was the end of the road. I bought another brand, second-hand on eBay, and found myself the owner of a rather battered but very serviceable Nikon F5, and a Nikkor 300mm f/4 AF-S lens. I was still using film but now getting a much better hit rate for those in-flight shots. Since then I have quite simply become a Nikon

Write to...

'Letters' at the usual AP address (see page 3) fax to 020 3148 8130 or email to amateur photographer f@ipcmedia.com

*Please indicate whether you would like to receive Fujifilm film or a memory card (please state type preferred) and include your full postal address

Earn £50 Backchat

Send your thoughts or views (about 500 words) to 'Backchat' at the usual AP address (see page 3). A fee of £50 will be paid on publication

*IN A CHOICE OF COMPACT LASH OR SHIC NOTE: PRIZE APPLIES TO UK AND EU RESIDENTS ONLY

LETTER OF THE WEEK

Wins a 20-roll pack of 36-exposure Fujifilm Superia ISO 200 35mm film or a Fujifilm 8GB media card*



MASS PRODUCED MEANS BETTER QUALITY

Professor Bob Newman's recent article on build quality (AP 10 August) was certainly food for thought. I have always thought the term 'build quality' to be a strange one, and I am not even sure if it is grammatically correct. I prefer to use the term 'well made' rather than 'good build quality', and to my mind they both mean the same thing, although I am sure that some will disagree. If we have to use the term, however, my understanding has always been that mass-produced items generally exhibit the best build quality, because all the parts have to fit together first time, every time, otherwise mass-production cannot be achieved.

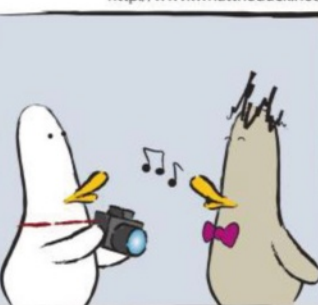
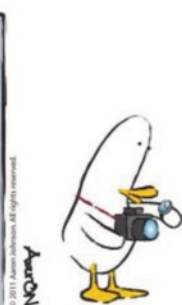
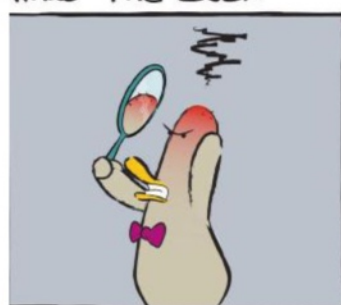
The few cameras I own are 'budget', and are therefore mass-produced items, yet I always marvel at how well they are put together, how well they work, and how well they continue to work. Despite their relatively modest cost, I never think of them as of inferior quality, and I would describe them as being well made.

There is another factor which I think is important, and that is 'reliability'. If a camera works reliably for 20 years, it must surely be argued that it is 'well made', or has/had 'good build quality' but, of course, at the time of purchase there is no way of knowing. The gentleman who bought an expensive Leica that only lasted two years clearly bought an unreliable camera, which in turn would suggest that it was badly made.

Douglas Thomson, Edinburgh



What The Duck



<http://www.whattheduck.net/>

convert, and now use a D3 (also second-hand) and have slowly gathered a small but adequate collection of Nikon glass.

So I switched because fundamentally I felt that 'my' brand simply didn't keep up with my growing needs and expectations. Pentax seemed to stay stuck in the mass-market when I needed something more capable – it was autofocus that did it! And why Nikon? Because it kept and adapted the same lens mount when going autofocus, and seemed better at keeping an eye on longevity than the alternatives. It's certainly a choice I don't regret. But if Pentax were to produce an affordable full-frame digital camera, I could still be tempted to get out my old manual-focus M- and A-series lenses...

Steve Thomas, Bedfordshire

GO TO THIS EXHIBITION

Sebastião Selgado's exhibition Genesis, currently showing at the Natural History Museum, is in my view the most important photography exhibition to be shown in the UK for a long time. I visited the exhibition out of curiosity, as I had noticed he is an Honorary Fellow of the RPS and I remember seeing his work featured in a Leica brochure some time ago. But apart from this, I had no idea what he was about.

The most memorable exhibitions I have had the good fortune to attend were held many years ago when the RPS was situated at the Octagon in Bath. The first was an exhibition of Ansel Adams's wonderful landscape prints, the other was the amazing portraiture of Irvin Penn. Sebastião Selgado manages to encompass landscape, portraiture and wildlife photography to a level I find hard to put into words – all in

monochrome. His Genesis exhibition is sublime to the extent that I consider him on the same level as Ansel Adams and Irvin Penn as one of photography's all-time greats. **Mick Miller, Berkshire**

We totally agree, Mick, everyone should go and see this exhibition. He really is an extraordinarily talented photographer – Debbi Allen, deputy editor

NIKON NEWS



The news story about Nikon's plans for more DSLRs as CSC growth slows was interesting (AP 31 August). I would have thought that its DSLR range was pretty much complete, although a very compact 'underling' to the D3200 might be a good idea. That policy could also be applied up the range with a compact FX D400...

What about lenses? That is the weak point of the DX cameras, with hardly any compact 'fixies'. It should be remembered that, notwithstanding Nikon's stats about west European/UK/US camera buying habits (including that we bought nigh on a quarter less of everything in Q2), consumers quickly find that a DSLR, especially when part of a multi-lens and flash outfit, gets left more and more at home, having been replaced by something lighter and more compact.

I'm not surprised about the 1 system, I think it was a bad idea. A retailer told me recently that he thought it would be killed off in the autumn. And I cannot understand why Nikon discontinued the Coolpix P7100. To me, alongside the Coolpix P7700, it complements the DSLR range perfectly. **Olybacker, from the AP forum**



THE SIMPLE REMEDY

I liked John Duder's take on pinhole photography in AP 17 August, and was amused at his suggested remedy. However, I think he should be told that there is more to making a good pinhole than sticking a pin into a piece of aluminium foil. A pinhole needs to be round, devoid of any burrs, in the thinnest possible material – brass is much better than aluminium – and be the optimum size for the focal length chosen. By converting to a lens-assisted pinhole (LAP), much better results are obtained. In the attached comparison, a single bi-convex lens was used in the LAP. So perhaps John is right: the simple remedy is to fit a lens!

Clifford Brown, Somerset

BACK CHAT

Should you take your camera to a wedding? AP reader Jill Beeton would rather just enjoy the day

I HAVE had the pleasure of attending a few weddings – as a guest, I hasten to add – and the variety never ceases to amaze and thrill me. There is such a wealth of detail, pretty fabrics, flower arrangements, people wearing – and acting – their best. Such a wealth of beauty to fill a camera with for someone such as me who loves taking photos and can find inspiration in the most mundane of surroundings. So you might find this a little surprising but about half the time I do not even take along a camera to such events.

I wonder how many have stopped and thought about the differences in how you view and experience an event (depending on whether you have a video recorder, camera, pencil or nothing in your hand?) For me, that difference hugely affects my experience. For the first wedding I remember attending, I took nothing – but the interesting thing is that I did remember a lot of things in detail, particularly the flowers in the church.

Events, feelings, interaction... I can remember such things without the need for a camera. Now, I love taking photos, but at a wedding what would be the chance of getting particularly good ones if you are just among the crowd, and without all the gear? Someone is bound to put their head, camera or whole body in front of you, to get their own snap just as you are ready for your shot. To stand the chance of someone taking a step back out of your way, you really have to look the part: if you are loaded up with all the gear, tripod, flash, camera, spare, then you might just have a chance.

Yet if I am a guest, I don't want the responsibility of having to get the pictures just right, so I have sometimes left my camera behind out of choice. It really does allow you to enjoy the day, and you can watch the other would-be photographers without having to jostle for a position.

A really lovely idea at one wedding was to put disposable cameras on each table at the reception, so that whoever wanted to could just pick one up and take a snap of anything interesting. Brilliant! The bride and groom got to gather up all the cameras at the end of the evening to get developed, so no need for undue shyness or competitiveness. The couple could choose which images to keep and which to add to a disc of the day for family and friends. So what if many of them may have had nothing much in them, the quantity, ease and availability would have given something worthwhile – whether to look at them just that once, or to keep for ever.

At others I may want to have a camera at hand, be it a compact, bridge or DSLR, which may vary with what is working, what I can borrow, or how much responsibility I want on the day – and it may also vary with whose wedding it is, how often I see them, and whether I want any responsibility for producing the pictures of the day!

PHOTO INSIGHT

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Andrew Sanderson reveals how shooting with film allowed him to recover a blown-out sky in this landscape photograph



ANDREW SANDERSON

A renowned photographer, tutor, author and Ilford Master Printer, Andrew Sanderson offers practical tips on working with film and traditional darkroom techniques

*Andrew Sanderson was talking to
Debbi Allen*

THIS shot is called 'The dip'. It was taken in the late 1990s in Meltham, West Yorkshire. I was out on a walk that day, exploring the local area where I had recently bought a house. Meltham is a small town and you don't have to walk far before you are in open farming country. I wandered up Mill Moor Road and soon found myself at Leygards Lane, looking south-west. I set up my camera on a tripod, and decided on a suitable composition using a Pentax ME Super and an 80–200mm zoom lens set at the long end of its range.

Shooting a landscape, or any other subject for that matter, with a long focal length allows me to compress the perspective, in this case bringing the distant farmhouses and the trees on the right nearer together. It can be a good idea to try shooting the same scene with a wide and a telephoto-length lens, just to see what difference there is in the perspective.

While composing this scene, I was metering carefully with a Pentax Spotmeter to get the tones just how I wanted them. I had previsualised the image with heavy blacks in the nearest walls to the right, as well as the overhanging tree, and in my mind this would stand out well against the lighter grey of the hazy distance, giving good aerial perspective. The sky was rather bright, but this wasn't something I could

do anything about, as a graduated filter is useless on a telephoto lens. I knew I could burn this in later in the darkroom, so I was unconcerned that it was a little bright.

When I had taken the meter reading and set the appropriate shutter speed and aperture, I looked through the camera again to check everything was how I wanted it to be. It wasn't. A horse and rider were coming down the hill in the distance and I could see that they would be a big distraction in the picture. Instead of the viewer looking at the elements of composition I had carefully placed, they would just look at the rider. With the distance involved, I could have been waiting quite a while before they got past me, and

'It can be a good idea to try shooting the same scene with a wide and a telephoto-length lens, just to see what difference there is in the perspective'



© ANDREW SANDERSON



I would probably have had to move out of the road because of the cars. I was anxious to get the shot as soon as I could, so I was relieved to see that as they reached the bottom of the dip they dropped so low that only the top of the rider's hard hat was visible. If you look closely you can just see it. I took one shot and a second later the rider began to rise into view again.

While working on this image in the darkroom later, I found the negative easy to print, apart from the sky. I knew at the time of taking the image that the sky had been overly bright, so it wasn't a surprise. The bright sky area was a bit dense on the negative, requiring quite a long second exposure to burn it in, as I had suspected.

I was printing to 10x8in, as I always do, to assess how well the image is going to print. I then decide which images deserve to be printed to 20x16in and scale up my exposure times accordingly.

I could tell that a scaled-up time for the long burning in I needed for this image would mean an uncomfortably long lean over the enlarger baseboard, with my arms extended. Having had experience of this kind of arm and backache from a couple of past negatives, I didn't relish the idea.

After the printing session, I looked through the various prints I had made from different negatives and this one stood out. When I revisited the negative to print it to the larger size later, it did indeed need an



If you would like to read more about paper negatives, Andrew's book, **Paper Negative Photography**, is available from www.blurb.com, price £15

arm-aching length of exposure. Looking at the finished print, I had reassessed how it should look and decided it needed even more density at the top than the 10x8in test print, so I knew this was going to involve doubling the burn-in time!

The solution was to make another small print with the required burning in and then make a paper copy negative from it. This meant that I could enlarge the image to any size I required and it would need only one exposure. The version you see here is from the paper negative and has the characteristic texture of that process, although the texture is not as pronounced as it can be because this is dependent on the paper chosen. **AP**

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5cm f/1.1 NIKKOR-N LENS

Photographed by Tony Hurst

The very impressive 5cm f/1.1 Nikkor-N lens was announced in February 1956 and was exhibited in Tokyo. The 5cm f/1.1 was a very radical lens for its time, consisting of nine pieces of glass, some of which were very thin split elements and others containing rare earth components. This stunning f/1.1 lens would reign supreme as the fastest lens made by the big four 35mm rangefinder camera makers, until the Canon 50mm f/0.95 lens was introduced in the early 1960s. The 5cm f/1.1 Nikkor-N weighed 12.25 ounces (355gm) and it could be stopped down to f/22 with click stops. It used a 12-blade diaphragm and had an angle of view of 46 degrees and a focusing range of 3ft (0.9m) to infinity. The first version of this lens had an internal mount the same as that found on their normal slower range of lenses, and is known as the 'Internal Mount f/1.1'. However, this lens was so heavy, that its weight could distort the camera mount and cause rangefinder error. This engineering problem was overcome in June 1959, when a 5cm f/1.1 lens was released with a redesigned barrel with an external mount, such as those found on the wide-angle and telephoto Nikkor lenses. The optical formula is identical to the internal mount version and both lenses used the same 62mm accessories and only the rear cap differed.

Factory records state that 1,046 internal mount lenses were made (835 in Nikon bayonet mount and 211 in Leica screw mount) and 1,547 of the external mount version. The 5cm f/1.1 stands as one of the most impressive looking lenses made by Nikon and is certainly one of the most sought-after by collectors. The lens shown in this photograph is an external mount version.



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WIDEANGLE PHOTOMERGE



MARTIN EVENING

Martin Evening is a London-based advertising photographer and noted expert in both photography and digital imaging. As a successful photographer, Martin is well known in London for his fashion and beauty work, for which he has won several awards. In 2008, he was inducted into the NAPP Photoshop Hall of Fame.

Martin has worked with the Adobe Photoshop and Adobe Lightroom engineering teams over many years and is one of the founding members of Pixel Genius, a software design company producing automated production and creative plug-ins for Photoshop.

His recent books include *The Adobe Photoshop Lightroom 4 Book*, *Adobe Photoshop CS6 for Photographers*, as well as the *Adobe Photoshop for Photographers: The Ultimate Workshop* series, which he co-wrote with Jeff Schewe.



Martin Evening's

Retoucher's Guide

Martin Evening explains how to create an extreme wideangle Photomerge image in Photoshop

THE PHOTOMERGE feature in Photoshop allows you to stitch photos together to create a single panorama image. This feature has been around in Photoshop for a while now and undergone various refinements to produce more accurate stitches. To get the best results, though, it's important to have enough overlap between each exposure – about 30% should be OK.

It used to be the case that wideangle lens captures wouldn't stitch together so effectively. When I first started using

this method, I would make sure the focal length of the lens was no wider than 35mm on a full-frame camera. More recently, the lens metadata can be used in conjunction with the lens-profile database to allow wider-angle lens shots to stitch more successfully. This will produce Photomerge results that may look rather distorted, but can be corrected by applying the Adaptive Wide Angle filter, which is available in Photoshop CS6 or later. Maybe this filter will be added to Elements in the future,

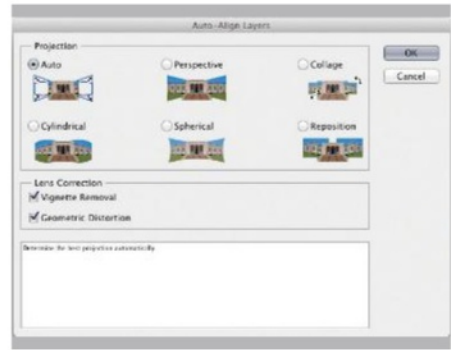
but for now it's Photoshop only.

I find myself using the following steps on nearly all my landscape Photomerge images these days. Although this was promoted as a tool mainly for architectural photography, it is very effective when applied to subjects such as this. The individual photographs used to create this panorama were shot using a 14mm prime lens on a full-frame digital SLR. Using Photoshop CS6 and the Adaptive Wide Angle filter, it was possible to merge these photos together to produce the super-wideangle view shown here. What's important to note is that the perspective appearance in this image doesn't look unnatural. It's clearly a wide view, but it doesn't look too distorted.

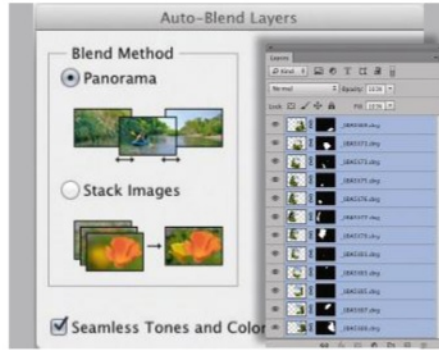


1 The final assembled Photomerge image was created from the 12 photographs that are shown here selected in Bridge. These were all shot using a 14mm wideangle lens and photographed with me handholding the camera. I aimed for a greater than 50% overlap between each exposure.

2 To start with, I went to the Tools menu in Bridge and chose Photoshop>Load Files into Photoshop Layers... This processed all the selected images, opening them one by one, and placed them as layers in a single Photoshop document. I then used Command + Alt + A (Mac), Control + Alt + A (PC) to select all the layers.



3 I went to the Edit menu in Photoshop and selected 'Auto-Align Layers...'. This opened the Auto-Align Layers dialogue shown here, where I decided to use the default Auto option. I also checked the Vignette Removal and Geometric Distortion correction boxes below.



4 Here you can see the Photomerged result. Normally, I would choose the Cylindrical projection method as this will always result in a level horizon. In this instance, I felt the Auto produced a more balanced composition, although, as you can see, the horizon appears curved. This can be corrected, though, in the following steps.

5 First, I needed to blend the edges. I went to the Edit menu again and chose Auto-Blend Layers... This opened the dialogue shown here, where I checked the Panorama button (because this was a panorama rather than a focus-stacked image I was blending). Once applied, this automatically added layer masks to each of the individual layers.



6 With all the layers still selected, I went to the Layer menu and chose 'Flatten Image'. This flattened everything into a single layer. I then went to the Filter menu and chose Adaptive Wide Angle... (Command + Shift + A [Mac], Control + Shift + A [PC]). This opened the Adaptive Wide Angle dialogue shown here.



7 I selected the Constraint tool and with the Shift key held down, clicked and clicked again to add two new verticals and a horizontal constraint line. The idea with these constraints was to level the side edges and horizon. In many cases, these few constraints are all that is needed.

8 Since this was an extreme wideangle Photomerge, I found it necessary to add quite a few more constraint lines. The difference between this and the Step 7 example is quite subtle, but helped improve the perspective appearance of the final composite image.



9 I clicked OK to apply the Adaptive Wide Angle filter and imported the processed image into Lightroom, where I applied the crop shown here. I also applied a few further tweaks to fill in a gap in the Photomerge composition in the bottom-right corner.

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Light fantastic

'Halo'. These strange conditions were captured at Loch Assynt in Sutherland. The blue toning and weird halo in the clouds appealed to Mark's eye for the unusual

A QUICK glance through the portfolio of landscape photographer Mark Littlejohn and you instantly grasp that this is a man who understands the most important element of capturing stunning images – great light. His work shows a connection with nature and is underpinned by solid camera technique.

All this may seem relatively unremarkable until you realise that Mark hadn't even picked up a compact camera until four years ago. This makes him a relative newcomer, yet his images display a maturity and creativity that many might struggle to emulate after a lifetime behind a camera.

A Scotsman who has been based for the past 30 years in Penrith, Cumbria, in the

Cumbria-based landscape photographer **Mark Littlejohn** is making a name for himself with his moody and dramatic style. **Andrew James** talks to him about his rapid rise

heart of the Lake District, Mark picked up a compact camera in 2009 as a way of recording what he saw on his regular walks in the hills. He is 50 years old, and describes himself as grumpy and middle-aged, although he's definitely anything but grumpy when we talk. However, he is undoubtedly a fresh talent who has been catching the eye with his moody and atmospheric images.

These days, Mark works part-time on the steamers on Ullswater, as well as pursuing his passion for pictures. In the not-so-distant past he was in a very stressful environment – working as a forensic detective for the police. A lot of his working time was spent analysing computers belonging to suspected paedophiles, so walking the hills became a natural release from an





undoubtedly difficult day job.

The compact camera became a logical extension to Mark's regular trips around the countryside, but it took a year and a chance visit to Flickr to really kick-start his true passion for recording the natural light and beauty of the Lake District.

'I joined Flickr in January 2010, simply to look for more Ullswater images,' Mark reveals in his thick Scottish accent. 'I was utterly amazed by the amount and quality of the photography I saw.'

That was all the inspiration he needed, and a Pentax K-5 DSLR plus a Sigma 10-20mm lens were the next links in the chain to becoming a creative photographer. Add in a B+W 10-stop filter and the chemical mix was complete, as Mark started making more artistic and considered photographs.

'I remember I took a long-exposure photo of a tree on the side of a hill, got home, looked at it and thought, "Wow!" From then on, I've never really looked back,' he says.

Mark quickly discovered that a wide scene

Right: With the sun reflecting off the smog, Mark couldn't resist parking up in Penrith and getting this shot



'I remember I took a long-exposure photo of a tree on the side of a hill, got home, looked at it and thought, "Wow!"'



TURBINES

ALTHOUGH you might think Mark's distinctive style owes something to post-production, the truth is that he spends relatively little time tinkering with his work on a computer.

However, he does bring out the mood from his raw images to ensure his final photographs have the impact he saw at the time. Black & white features strongly in his work, and typical of his eye for atmospheric mono is this shot of wind turbines along a Scottish hillside. He spotted the potential as he drove past at dawn on a miserable and grey drive to Edinburgh.

'The turbines just made me think of

sentinels – some sort of future-age guardians of the border,' he says. 'I processed it very simply in Silver Efex software and dumped it straight back into Adobe Lightroom where I used a dark preset. Then I added a digital grad at the top and bottom as I had just bought a new camera and lens combination so I had no physical grads for it. Finally, I increased the clarity very slightly – and that was it!'



is not always the best scene, and that he needed to consider composition with the same degree of precise thought he used for his forensic work. So undoubtedly driven by an eye for detail, he developed rapidly and remarkably in that respect.

A PAINTERLY EYE

Mark's eye for composition is superb and his style shows a fluidity that is akin to fine-art painting. It's not surprising, then, that when pressed for an answer on where he drew his early inspiration, he names the British painter James Naughton first rather than a photographer.

If you look at James Naughton's work you instantly understand that influence. James Naughton – a Lancashire-born contemporary landscape painter – captures

dark, brooding, almost mysterious oil paintings. They ooze atmosphere and show the beauty of fleeting light.

Yet Mark also mentions Joe Cornish, one of the UK's top landscape photographers, and in particular his attention to careful composition. 'Joe obviously takes a lot of time getting his compositions right, but the end result is always very natural,' says Mark.

Composition, inevitably, plays a vital role in Mark's approach to landscape photography and he hints that it is a meditative process – something he also shares with James Naughton. In fact, you get a sense of someone who is simply trying to tap into the drama of a location. To do this, he talks of working with an absence of thought.

'Most of my favourite work has come on the spur of the moment,' says Mark. 'I try not



Above: The inclusion of a crab pot in the foreground is enough to elevate this shot and hold our attention

to think too hard about what I'm doing from an artistic point of view, because if you have set your mind on one course of action you aren't allowing yourself to view everything that is open to you. I try to free myself of any premeditated thoughts about what I'm going to do.'

Clearly, though, there are a lot of thought process going on once Mark has tuned in to the environment and is designing his composition.

'When I do decide on a shot, I am usually very precise about the finer points of the composition,' he says. 'I like all the elements contained in the image to have their own space. I don't like any of them to coincide, such as a line of branches along a fell or a rock being half in a reflection and half out. I like tree trunks to

Below: An unusually light image from Mark, but with his usual eye for engaging atmospheric conditions





break the horizon and trees to have their own space. 'I guess there are two separate processes – one to spot the composition and the other to actually position the camera best,' he continues. 'Spontaneity is the key for me and it's something I have picked up from James Naughton. I don't look so much for the big views and I'm not a fan of the obvious. I rarely have a grand plan or a shot in mind. I just go out and look. It's not unknown for me to spot a sudden interesting bit of light while driving and abandon the car. I'm a great believer in going for it.'

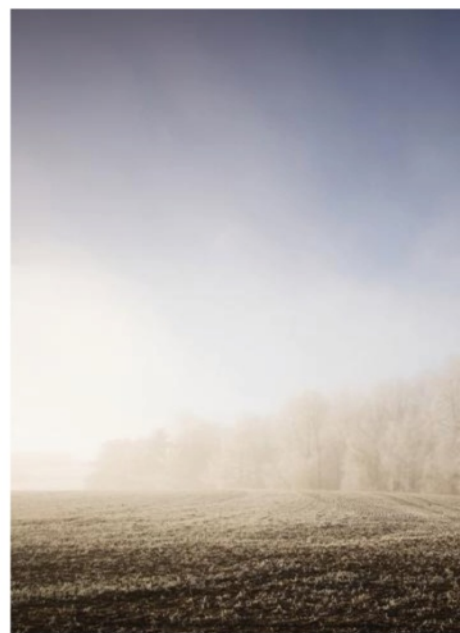
thought and soaking up a momentary burst of light that's almost setting the distant fells on fire. He uses Lee Filters, apart from the B+W 10-stop ND. His most used filter is the 0.6 ProGlass ND, and he also employs graduated filters, with his favourites being the 0.6 and 0.9.

'I only ever work with one raw file,' says Mark. 'I'm not a fan of blending multiple images, so a grad is a must and, as I'm never faced with flat horizons, these are usually soft-edged. I usually use a 2-stop ND filter because I think I get nicer results and better colour from a slightly longer exposure. If



Left: A favourite among many landscapers, Buachaille Etive Mòr's charms have also attracted Mark's attention. Here he used his 24mm to work a typically dynamic composition

Right: The trees laden with hoar frost were emerging from the overnight freezing mist as Mark passed by on the A66



THE TECHNICAL APPROACH

The picture of a landscaper wandering freely across the fells, hoping to stumble on a scene, is a romantic vision. Yet to go from a newcomer with a compact camera in 2009, to a man whose work is undeniably in demand in 2013, suggests there must be a lot of hard work behind the creative genius.

'Digital has allowed me to learn quickly,' says Mark. 'Probably because of my background, I approach everything from a very logical point of view. I think I took around 25,000 photos in the first year and was out more or less every single day.'

And what of his technical approach? He almost brushes this area to one side, as if it is a mere irritation he has to endure to get to the point he wants to be – lost in

MARK'S EQUIPMENT

MARK'S first DSLR was a Pentax K-5 – a camera he still uses. His lens collection has grown from the 10–20mm he started with, adding 16–50mm, 50–135mm and 60–250mm lenses. He cites the 16–50mm as his 'bad-weather' walking lens.

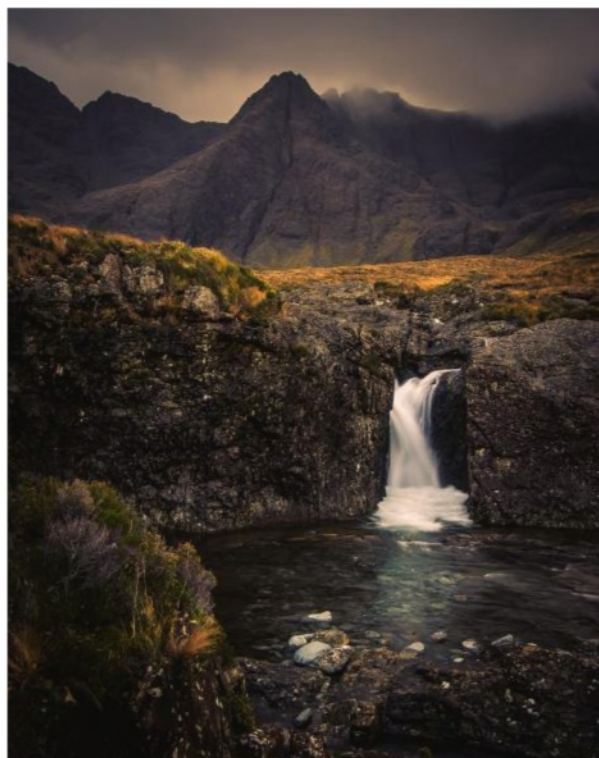
These days he also uses a Nikon D800, along with 24mm f/1.4, 50mm f/1.8 and 16–35mm f/4 VR lenses, but is most often spotted with the 24mm. 'I prefer to use prime lenses because

they make you work harder,' he says. He is also the owner of a Fujifilm X100 as his day-to-day, 'always-at-the-ready' camera.

'I use a Gitzo tripod and a Kirk ball head, which, although heavy, is wonderful, very solid, reliable, easy to use and just an all-round pleasure,' says Mark. 'I also use a strong bag and Neoprene wellies that are a godsend in a Lake District winter. If you are going to stand in freezing water for several minutes, it isn't fun doing so in ordinary boots.'



A 2min exposure, during which the sun has attempted to burst through the mist, has added a mysterious quality to this black & white shot



there is running water in the shot, I like the use of a slightly slower shutter speed, perhaps anywhere up to 0.7secs to give the best results, depending on the speed of the water.'

It's clear that Mark is not after perfection, and describes the trend towards overprocessing as 'not his cup of tea'. He doesn't like to oversaturate his images and he definitely doesn't do HDR. 'It can become sterile if your picture is too perfect,' he says.

EARLY RISER

Mark is very much a morning person, so you might not get much sense from him after 8pm, especially if he's been on a string of dawn photography sessions and has later relaxed with a glass of red wine.

Top right: Typical of Mark's moody style, this dark landscape displays an otherworldly atmosphere

Above right: Simplicity personified and proof that timing is everything for great photographs



'I find shooting early very satisfying,' he says. 'There's something invigorating and refreshing about watching and capturing the low, changing light. If you want good images, then in the summer you have to be in place during the wee hours.'

Mark's appetite for those early sessions seems undiminished. Just experiencing wonderful light is enough, but he's also clearly appreciative and somewhat surprised by the attention his photographs are getting.

If you want to keep up with his work, visit markljphotography.co.uk, or Facebook (Mark Littlejohn Photography) and Flickr. Success has rather sneaked up on him so he doesn't actually have his own bespoke website yet.

If you'd rather see his work the 'old-fashioned' way, then look out for the book he has ambitions of publishing. 'I think I nearly have enough different images of Ullswater to make one worthwhile,' he reveals. We think he's right. **AP**

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AUTUMN 2013

IN-STORE EVENTS (SEPTEMBER):

- Friday 13:** London Camera Exchange - Bristol
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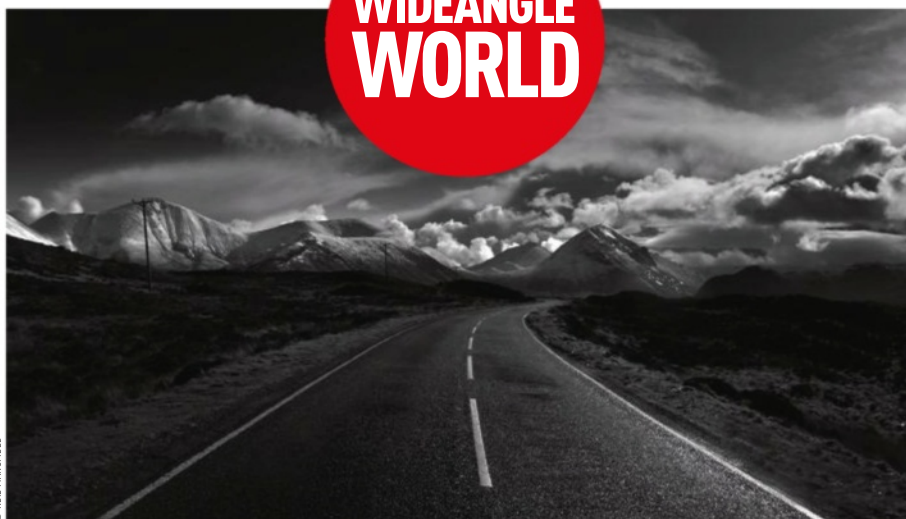
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Round eight
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Round 8 of this year's Amateur Photographer of the Year competition is **Wideangle World** (wideangle and pan stitch). It should go without saying, but choosing just the right lens for your scene is perhaps the most crucial factor in producing a successful image. The appropriate focal length can serve to obscure as much as it can reveal. For example, a telephoto lens can hone the viewer's attention into the subject by removing any extraneous details that may serve to distract the eye. However, for this round we want you either to restrict yourself to using a wideangle lens or try your hand at producing a panoramic view. Any subject will do – so long as it is a wideangle view. We have thousands of pounds' worth of fantastic Panasonic camera equipment up for grabs, as well as the chance to be crowned **Amateur Photographer of the Year 2013**. The closing date for round 8 is **27 September 2013**.

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First prize is a Panasonic Lumix DMC-G5 with a Lumix G Vario 7-14mm f/4 Asph lens, worth a total of £1,749.98. Second prize is a Panasonic Lumix DMC-TZ40 worth £329.99. Third prize is a Panasonic Lumix DMC-SZ3 worth £199.99. That's a prize package worth more than £2,100! The top 30 photographs will be published in our 26 October issue, while the scores from the top 50 images will be posted on our website.

For information explaining how to enter, follow the link at the bottom of this page. Please use your full name as the file name and paste the disclaimer into the body of your email if you

are sending your entry to us electronically. We also need to know where and how you took your image, plus the camera and lens used with aperture and focal-length details. Remember to include a telephone number and your postal address so we can contact you if you win.

How to enter via email: For full details of how to enter via email and for terms and conditions, visit www.amateurphotographer.co.uk/apoy13

Round eight

Wideangle World

Selecting the right lens to capture your scene is one of the most vital choices you can make. Finding yourself wielding the wrong lens can mean you lose out on a potentially great shot. Knowing when to use a wideangle lens as opposed to a telephoto engages the creative and logistic portion of your brain. While a telephoto lens will well work outdoors, it may not offer you enough space to frame your subject.

With that in mind, we want to see what you can achieve using either a wideangle lens or by producing a panoramic stitch. Our world contains some absolutely breathtaking landscapes that are just begging to be photographed. A wideangle lens can help to convey the sheer vastness of the scenes you find.

However, a wideangle lens doesn't just have to be for landscapes. These lenses can work fantastically well for interiors, too. And quite surprisingly they can also work for portraits. But why not take it one stage further and try your hand producing a pan-stitch? Again, you can find appropriate subjects everywhere, maybe even in your own home. Any subject will do – just so long as it's visually engaging and interestingly captured.

PLAN YOUR APOY 2013 YEAR

Below is a list of this year's rounds, a synopsis of what we're looking for and the dates they will be announced. When you are planning your entry, remember to take into consideration the criteria of fulfilling the brief, creativity and technical excellence on which you will be judged.

Theme	Synopsis	Announced	Closes	Results
Portraits in Artificial Light	Portraits using artificial light	2 Feb	28 Feb	30 Mar
Life in Motion	Long exposures/frozen action	2 Mar	29 Mar	27 Apr
The Animal Kingdom	Pets and wildlife	6 Apr	26 Apr	25 May
Interior Architecture	Inside man-made structures	4 May	31 May	29 Jun
Floral Still Life	Flower and plant portraits	1 Jun	28 Jun	27 Jul
People at Work	A single frame to tell a story	6 Jul	26 Jul	31 Aug
Black & White World	Monochrome landscapes	3 Aug	30 Aug	28 Sep
Wideangle World	Wideangle/pan stitch	7 Sep	27 Sep	26 Oct
Going Abstract	Textures, shapes and colours	5 Oct	25 Oct	30 Nov
Under the Weather	Autumn and winter weather	2 Nov	29 Nov	21-Dec Dec

1st prize

The first-prize winner will receive a Panasonic Lumix DMC-G5 body with Lumix G Vario 7-14mm f/4 lens, worth a total of £1,749.98. The G5 is a digital single-lens mirrorless camera with a 16.05-million-pixel, micro four thirds, Live MOS sensor. Alongside its 1.44-million-dot EVF is an impressive 3in, 920,000-dot articulated touchscreen. Being able to shift the screen is great for viewing from a number of angles, and the touch functionality is useful for controlling the shutter, spot AF and metering. Other features include 6fps high-speed continuous shooting and eye sensor under the EVF that can activate AF. The compact and lightweight Lumix G Vario 7-14mm f/4 Asph is an ultra-wideangle zoom lens (14-28mm equivalent) with a 114° angle of view and f/4 brightness over the entire zoom range that is ideal for landscapes and street photography.



2nd prize

The second-prize winner will receive a Panasonic Lumix DMC-TZ40, worth £329.99. The 18.1-million-pixel TZ40 has a High Sensitivity MOS sensor and Venus Engine, and incorporates a 24mm ultra-wideangle 20x optical zoom Leica DC Vario-Elmar lens (24-480mm equivalent). Wi-Fi connectivity and NFC technology are included, while full HD 1920x1080 videos can be recorded at 50p in AVCHD Progressive and 25p in MP4 format. Other features of the TZ40 include GPS, ISO 100-6400 (extended) and a 3in Multi-Touch screen in an ultra-compact body.



3rd prize

The third-prize winner will receive a Panasonic Lumix DMC-SZ3 worth £199.99. The slimline 16.1-million-pixel SZ3 compact has a 25mm ultra-wideangle Leica DC Vario-Elmar lens with powerful 10x optical zoom (25-250mm equivalent). The creative panorama function with ten filters allows users to apply effects to create a horizontal/vertical panoramic image produced with consecutive shots, while Sonic Speed AF helps to catch fleeting photo opportunities. HD video can be recorded in 1280x720p Quick Time Motion JPEG format.

LUMIX G Get involved with the Panasonic community by visiting the Lumix G Experience website at www.lumixgexperience.panasonic.co.uk

Here are some tips and suggestions to help you get started

Why not try...



CITYSCAPES

Cities are designed to appeal to our sense of wonder. Walk through any capital city and it's difficult not to be blown away by the sheer scale and beauty of the architecture. This is particularly true when you are able to gain access to a building that offers a grand, sweeping view of the surrounding landscape. A wideangle lens offers you an opportunity to emphasise just how impressive the scene is. Here we see Jarrod Castaing's entry from APOY 2011. Jarrod has standing at the optimum position to include three roads in his shot. However, why not also try shooting city skylines, a subject that benefits greatly from pan stitching.



PAN STITCHES

Pan stitches (or, as they're commonly called, panoramas) are a lot of fun to produce. Place your camera on a tripod and ensure that the surface you're positioned on is flat. Set your camera to manual, including the focus. You then need to pan your image from end to end, making sure that you take a picture at particular increments. Depending on your environment, you may have a number of shapes that you can use as a guide. However, you should also make sure that there is some degree of overlap as this makes it a lot easier when it comes to stitching your images together later. Then, using Photoshop's Photomerge function, you can produce your panorama.

SOMETHING SMALLER

We've emphasised how a wideangle lens and panoramas can be used to bring out the impressive scale of a scene. But you can also use your wideangle lens to focus on the more intimate scenes you come across. Take Matteo Colombo's entry from APOY 2011,

for example. It's a beautiful and quiet image, yet one that still shows you so much more than a telephoto lens could in this situation. We also mentioned before that a wideangle lens can be used for portraiture. Usually a long lens would be the optimum choice for a portrait shot, but a wideangle will allow you to include plenty of background while still having your subject fill most of the frame.



© JARROD CASTAING

© IDA MACKIE

© MATTEO COLOMBO

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APOY Amateur Photographer OF THE YEAR COMPETITION

After you've read the rules, send your entry to:
**Wideangle World, Amateur Photographer, IPC Media,
Blue Fin Building, 110 Southwark Street, London SE1 0SU**

CLOSING DATE FRIDAY 27 SEPTEMBER 2013

PLEASE USE BLOCK CAPITALS

Mr/Mrs/Miss/Ms First name
Surname
Address
Postcode

Daytime telephone no.

Email address

Picture details

Camera

Lens

Film (if applicable) Exposure (if known)

I earn no more than 10% of my total annual income or £5,000 annually from photography (tick to confirm) ☐ Please return my entry. I enclose an SAE ☐ OR: I do not need my entry returned ☐ (tick one to confirm). This entry has not previously been published in a national UK photography magazine ☐ (tick to confirm). Amateur Photographer, published by IPC Media Ltd ('IPC'), will collect your personal information to process your entry. If you would like to receive emails from Amateur Photographer and IPC containing news, special offers and product and service information and take part in our magazine research via email, please tick here ☐ Amateur Photographer and IPC would like to contact you by post or telephone to promote and ask your opinion on our magazines and services. Please tick here if you prefer **not to** hear from us. ☐ IPC may occasionally pass your details to carefully selected organisations so they can contact you by telephone or post with regards to promoting and researching their products and services. Please tick here if you prefer **not to** be contacted ☐ If my entry is not successful, I would like the image to be considered for critique in the Appraisal column ☐

RULES 1. Entrants may submit only one photograph per month, as an sRGB JPEG file that is 2,700-3,000 pixels along its longest dimension, an unmounted print (max size 210x297mm) or slide (no glass mounts please), in colour or black & white. 2. The entrant's name, address and daytime phone number must be attached to the slide mount or the back of the print. 3. You may only submit digital files by email (no CDs/DVDs). When submitting a digital file, the file name of your image must be your first name and surname, the subject line of your email message must state the round name and your name once again, and the body copy of your email must include your name, address, daytime telephone number, the camera model, lens and exposure details. 4. Photos submitted must be your own work, must not be copied, must not contain any third-party materials and/or content that you do not have permission to use and must not otherwise be obscene, defamatory or in breach of any applicable legislation or regulations. If IPC has reason to believe your entry is not your own work or otherwise breaches this rule, your photos will NOT be considered. 5. Photos must not previously have been published in a national UK photography magazine. 6. Copyright of all entries remains with the photographer, but IPC, Panasonic UK and their associated group companies reserve the right to use, publish and republish entries in connection with the competition, without payment. 7. By entering this competition you grant permission to IPC, Panasonic UK and their associated group companies to reproduce your photos in electronic format and hard copy including for display at an exhibition, in IPC's Amateur Photographer magazine and on IPC's and Panasonic UK's websites and social media should they be selected to promote the competition. 8. You grant IPC and Panasonic UK the right to use your name and town or city of residence for the sole purpose of identifying you as the author of your photos and/or as a winner or runner-up of the APOY competition. 9. Each postal entry must be accompanied by the correct entry form with all sections completed. A photocopy of the entry form will be accepted. All submissions must be well packaged in a stiffened envelope (no tubes, please) bearing sufficient postage, and entrants wanting their picture back must include a stiffened SAE stamped of sufficient value for their return. 10. This competition is open to bona fide amateur photographers and students only. That is, entrants should not earn more than 10% of their total annual income OR £5,000 annually from photography. 11. Employees of IPC Media, Panasonic UK and their families may not enter this competition. Entries are judged by AP staff. 12. There is no age limit for entering, and international entries will be accepted. 13. Prizes are as stated and no cash or other alternative can be offered to the monthly prizes or overall prize. 14. Prize value correct at time of going to press. Overseas winners will be contacted by phone about how to claim their prize. Panasonic UK has the right to substitute a prize for a similar item of equal or higher value if the stated prize is not available. No money can be added to the overall prizes. The overall first prize for the APOY 2013 competition will be to win Panasonic products to the value of £5,000 RRP as at the date of notification. 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IPC, Panasonic UK or their associated group companies shall not be liable for any loss, damage or injury of any nature whatsoever caused, sustained by any entrant under this promotion. However, nothing in these rules shall have the effect of excluding or restricting liability for personal injury, death, fraud or fraudulent misrepresentation caused by the proven negligence of employees or agents of IPC, Panasonic UK or their associated group companies. 22. Panasonic UK shall not be liable for any failure to supply the prizes where such failure is caused by any supervening circumstances outside its control which amount to force majeure and which without the fault of either party renders performance impossible or incapable of satisfactory execution. 23. These rules are governed by the laws of England and Wales and any dispute in relation to them shall be subject to the non-exclusive jurisdiction of the English courts. 24. This competition is owned and run by Amateur Photographer/IPC Media and all competition terms and conditions are bound by Amateur Photographer/IPC Media rules.

AP publishes more reader photographs than any other photography magazine

ReaderSpotlight

Flower in green
1 By isolating a single flower, Adrian has created a simple but beautiful image
Canon PowerShot G9, 22mm, 1/80sec at f/3.5, ISO 80

Structure of lily
2 The addition of a tripod allowed Adrian to slow down his shutter speed and thus use only natural light for this image
Panasonic Lumix DMC-LX3, 5mm, 1/25sec at f/8, ISO 100, tripod



Adrian Osmond Torfaen

Adrian, 46, first discovered photography as a teenager, but his interest faded until the advent of digital imaging tempted him back. His favourite subjects are natural history, landscapes and people. 'I like to make a record of my surroundings, but aim to produce something a little different,' he says. To see more of his images visit www.flickr.com/photos/39987542@N08.

Otherworldly poppy

3 This is macro photography at its best, being so close to the flower's details that it becomes almost unrecognisable
Canon PowerShot G9, 22mm, 1/125sec at f/3.5, ISO 80

In the field

4 Adrian wanted to get a 'bug's-eye-level' view of wildflowers, and the shallow depth of field gently picks this flower out of the background
Nikon D7000, 105mm, 1/1250sec at f/5.6, ISO 400



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Sometimes the simple subjects are the best, and this buttercup is a great example. Strong colours in a duotone palette with shallow depth make for a striking image –
Debbi Allen, deputy editor

At the Riverbank, Kolkata

1 Angshuman found the perfect angle of view for this silhouette shot, allowing the two figures to merge together

Canon PowerShot A530, 35-140mm, 1/320sec at f/5.5

Children near Kolkata

2 A lesson for people who insist that street photographers should always remain unobserved – the children's smiles make this picture

Kodak EasyShare Z980, 26-624mm, 1/80sec at f/4.5, ISO 200

Shyambazar

3 This is an unusual street shot that works exceptionally well by breaking traditional rules of composition

Nikon D5100, 55-300mm, 1/320sec at f/5.6, ISO 250

Langoipota

4 There is some subtle but rewarding interplay of light and shadow in this well-composed image

Canon PowerShot A530, 35-140mm, 1/25sec at f/4

Holi Festival

5 A challenging situation involving bustling crowds has yielded a fantastic image that is full of life, emotion and vibrant colour

Nikon D5100, 18-55mm, 1/200sec at f/9, ISO 800





Angshuman Paul

India

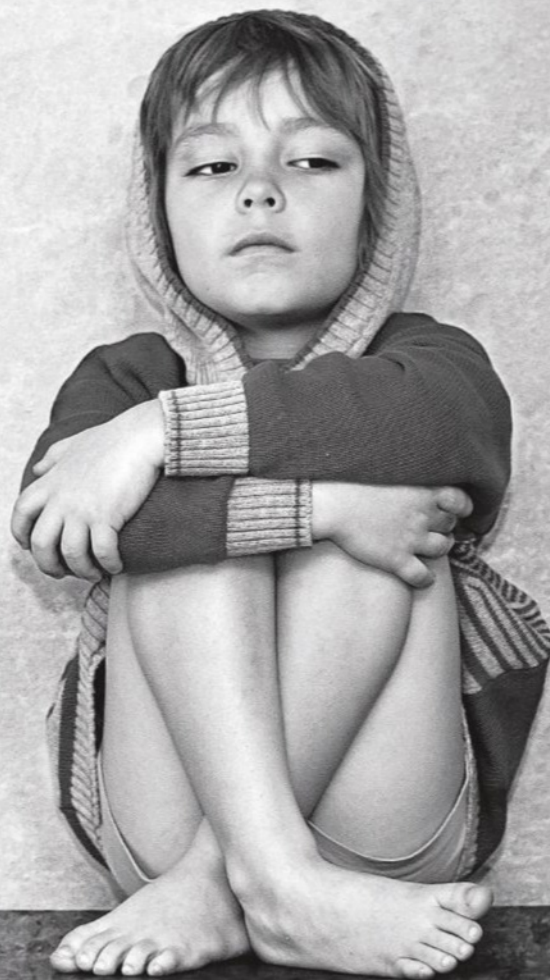
Angshuman was first a painter, and then developed an interest in the possibilities that photography gave him to paint with light onto film. From there, he transferred to digital imaging. His favourite subjects are street and portrait photography, and he loves how taking photographs allows him the opportunity to 'play with light'. In the future, Angshuman hopes to take his photography to Kolkata, where there are plenty of subjects for him to capture.



Jolanta Macionczyk

Berkshire

Jolanta has always been passionate about photography, and that passion has grown immensely since she had children. 'I think I will not be the exception if I say that what I love most in photography is the ability to stop time – the moments that will never come back,' she says. A self-taught amateur, Jolanta would like to develop the technical aspects of her photography in the future via courses or workshops. To see more of Jolanta's work, visit her website at jollqa.wix.com/jolqaphotography.



Olaf

1 The off-centre subject placement is key here
Nikon D5100, 70-300mm,
1/40sec at f/4, ISO 800

Afternoon tea

2 Sometimes a well-chosen prop can make a portrait special
Nikon D5100, 30-700mm,
1/25sec at f/4, ISO 100

Web

3 A strong light source gives the intriguing contrast in this image
Nikon D5100, 35mm,
1/100sec at f/1.8, ISO 100

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Amateur Photographer's...

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Bruce Davidson

1933-present

Bruce Davidson, who celebrates his 80th birthday this month, is a major figure in American documentary photography, writes **David Clark**



© BRUCE DAVIDSON/MAGNUM PHOTOS

© BRUCE DAVIDSON/MAGNUM PHOTOS

Left: Girl holding kitten, London, 1960

BRUCE Davidson's work is concerned, in his words, with 'penetrating a world or a space that I fear, or that I don't know, or to which I'm attracted'. In exploring his subjects, whether teenage gangs, circus performers or residents of inner-city ghettos, he has created his own distinctive style of documentary photography.

Davidson's approach is to immerse himself in his subject, often for years at a time. His personal involvement with the often marginal social groups he photographs sets his work apart from those who dispassionately record a scene. In that sense, he says, he doesn't consider himself a documentary photographer.

'The term "documentary photographer" suggests you just stand back, that you're not in the picture, you're just recording,' he told *The New York Times* in 2007. 'I am in the



picture, believe me. I am in the picture, but I'm not the picture.'

Born in a Chicago suburb, Davidson's love of photography began at the age of ten when he visited a friend's darkroom and was entranced by the magic of seeing images emerge on blank sheets of paper in the developing tray. By the time he was 16, photography had become a major part of his life. With his mother's permission, he would regularly take the train into Chicago by himself and photograph people that interested him on the city streets.

Later, while studying at Yale, he photographed the university's football team – not on the pitch, but behind the scenes. Some of the resulting pictures were published in *Life* magazine. His career was interrupted by a period of national service in the US Army, but by 1958 he had produced

Above: Bruce Davidson, photographed while shooting his New York subway project, 1980

'In my work, I'm not looking for one decisive moment. With me, it's more like a series of decisive moments'

enough high-quality work to be invited to join the prestigious Magnum agency by Henri Cartier-Bresson.

In the following years Davidson produced his first significant photo essays, including 'Brooklyn Gang', for which he spent a year photographing a gang of teenagers known as The Jokers. He also worked on 'The Dwarf', a series on Jimmy Armstrong, a clown in a travelling circus. Both these portfolios of work get beneath the subjects' skin to produce powerful and emotive images, and could only have been created

by someone with an intimate knowledge of their subject.

Although he has remained a member of Magnum for more than 50 years, Davidson's approach has always been very different from that of his friend and mentor, Cartier-Bresson. 'In my work, I'm not looking for one decisive moment,' he wrote in the 2004 book *Magnum Stories*. 'With me, it's more like a series of decisive moments: they accumulate; they have a cumulative effect, where the complete essay adds up to more





© BRUCE DAVIDSON/MAGNUM PHOTOS

Biography

1933

Born on 5 September in Oak Park, Illinois, a suburb of Chicago, USA

1950s

Attends Rochester Institute of Technology and later Yale University

1955-1957

Drafted into the Signal Corps of the US Army

1958

Becomes a full member of the Magnum agency

1958-61

Completes several projects including 'The Dwarf', 'Brooklyn Gang' and 'Freedom Rides'

1961-65

Chronicles the American Civil Rights movement

1970

Publication of *East 100th Street*, photographs documenting life in an inner-city ghetto in New York's East Harlem

1980

Photographs extensively on the New York Metro. His work is subsequently published as a book, *Subway*

1991-95

Photographs the landscape and people of New York's Central Park

2006

Completes a series of photographs on the natural world in and around Paris

2011

Receives the Outstanding Contribution to Photography Award at the Sony World Photography Awards

'What drives me is an awareness of the essential loneliness of man – we are alone when we're born, we're alone when we die'

than the sum of its parts.'

In 1960, Davidson was commissioned by *Queen* magazine to spend two months travelling around England and Scotland to produce a portrait of the two countries at the time. His insightful pictures revealed a nation divided by rich and poor and by town and country, but some reflected the changing spirit of the new decade.

One of these images, showing a teenage girl holding a kitten (see page 38), has been singled out by Davidson as his favourite image. 'I didn't know where she had come from, and I didn't get her name,' he told *The Guardian* in 2007, 'but there was something about that face, the hopefulness, positivity and openness to life – it was the new face of Britain.'

After returning to America, Davidson spent four years chronicling the Civil Rights movement as black Americans demonstrated against the widespread racial discrimination of the period through marches and civil resistance. After the project was completed, in 1967, Davidson was awarded the first grant for photography from the National Endowment for the Arts.

He used it to fund his next project, *East 100th Street*, which documented life in a notorious inner-city ghetto in New York's East Harlem district. Davidson put aside his usual Leica cameras to shoot with a large-format 5x4in. The pictures he produced not only show the residents' dignity, despite their poverty, but also

Davidson's deep respect for them.

Following an unsuccessful period in the late 1970s when Davidson tried his hand at movie-making in Hollywood, he began photographing a new subject: the New York subway. After years of neglect, the trains were badly in need of replacement and covered in graffiti, while crime on the subway was widespread.

Davidson used colour film to capture the 'eerie, fluorescent darkness' of the subway and its passengers. 'I wanted to transform the subway from its dark, degrading and impersonal reality into images that open up our experience again to the colour, sensuality, and vitality of the individual souls that ride it each day,' he explained.

During the past 30 years, Davidson has continued exploring new subjects in his distinctive, in-depth way. They have included a four-year project on the landscapes and visitors to New York's Central Park and an assignment from *Esquire* magazine in 2004 that focused on diners at the famous Katz's Delicatessen in New York (see photo above).

Davidson lives in New York with his wife, Emily, and continues to accept editorial photography assignments. 'What drives me,' he wrote in *Magnum Stories*, 'is an awareness of the essential loneliness of man – we are alone when we're born, we're alone when we die – and it's that fundamental quality of isolation, together with feelings of love, that compels me to use the camera the way I do.' **AP**

Katz's Delicatessen, New York City, 2004

BOOKS AND WEBSITES

Books: Two books of Davidson's work are currently in print: *England/Scotland 1960* (Steidl, 2006) and *Outside Inside*, a three-volume box set, also published by Steidl. Several other books of Davidson's work are available second-hand from www.amazon.co.uk.

Websites: A wide range of Davidson's work, plus biographical information, can be seen on www.magnumphotos.com. He can be seen talking about his work on blog.leica-camera.com/photographers/interviews/bruce-davidson.

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Original

Flower close-up Charlotte Williams

Samsung PL150, 27mm equivalent focal length, 1/60sec at f/3.5, ISO 80

THERE are times when we're all inclined to blame our equipment for our photographic failings, rather than accept that we could have done things slightly differently to get a better result. Yet sometimes the camera we are using is at least partly to blame for things not coming out as well as they could.

Charlotte's macro shot, taken using a 'point-and-shoot' camera, is an example of this. It's obvious that the central flower isn't sharp, and because the petals in the lower right corner are noticeably sharper, this suggests the camera moved slightly between the focus locking on and the shutter firing. Obviously, this movement can be put down to 'user error', but the camera hasn't helped by setting the aperture automatically to f/3.5.

With close-up photography depth of field is always limited, so the slightest movement can be the difference between something appearing sharp or not. This is where having the option to take control of the exposure settings, especially the aperture, can be beneficial. As Charlotte was using a point-and-shoot camera, she didn't have that luxury and, sadly, the wide aperture setting chosen by the

camera has worked against her.

That aside, Charlotte's shot started with promise: she's chosen a 'tidy' flower with no unsightly petals. I would suggest that she clones out one or two black marks on the petals, though, and that next time she photographs this type of subject she checks the background before shooting. Although the background has been thrown out of focus by the shallow depth of field, the black chain at the lower left corner and what appears to be a wooden shed at the top right both detract slightly from the subject. Having more of the green foliage surrounding the main bloom would have been preferable.

My only other suggestion would be to crop the image to a squarer shape and add a little contrast. While a centrally placed subject is very obvious in a compositional sense, it can work when the subject is roughly as wide as it is tall (as is the case here) and the image is cropped to a square. In this instance, cropping also helps hide the untidy background elements, while the contrast boost simply 'cheers things up'. Unfortunately, there is no quick fix to the focus issue, other than to reshoot.



Marks on petals



Distracting elements



Cropped and contrast boost



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READER HOLIDAY

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AP guide to...

Planning a location shoot

Craig Roberts explains the do's and don'ts of planning your own successful location shoot

THE KEY to a successful shoot is the planning. The event, especially where landscapes are concerned, is not all about taking the picture, but rather the work that goes into arriving at the location at the correct time, in the right conditions,

Find out as much about your chosen location as possible before you turn up to photograph it

fully prepared. Some planning and a little homework – days, weeks or even months in advance – go a long way in helping to prepare for a successful shoot.

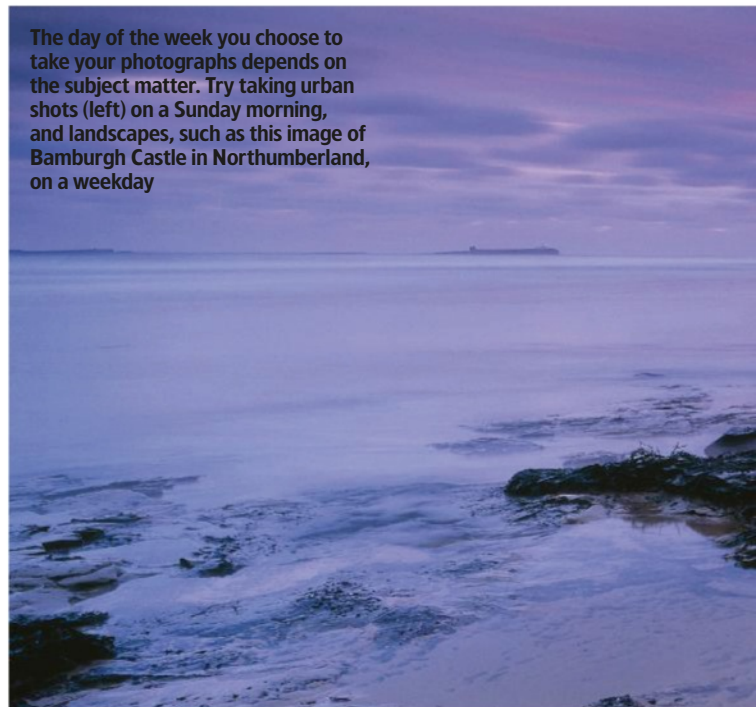
Getting to know the location as much as possible before you even arrive not only

allows you to get a sense of the place, but can also save a lot of wasted time when you finally get there. So, let's look at the preparations you should make before each trip, so you are rewarded with successful images every time.





The day of the week you choose to take your photographs depends on the subject matter. Try taking urban shots (left) on a Sunday morning, and landscapes, such as this image of Bamburgh Castle in Northumberland, on a weekday



Use books, magazines and photo libraries as inspiration to find your ideal location



RESEARCH

The first thing you have to decide is where you are going to take your pictures. If you already have a location in mind or have seen a photograph in a magazine, that's perfect, otherwise you need to do some research to find your ideal photographic location.

Scanning through magazines and books is a good starting point, and photography magazines, such as AP, are full of fantastic locations that other photographers have visited. Use the internet and type in the location on a photo library search page to see the potential of a chosen area. Then, print off thumbnail versions of the images for reference so you can track down the exact location when you get there. However, if you are using other people's work as your reference, do only use the images as a guide and try to find your own unique take on the location. Even the most-photographed locations have new and undiscovered views, so make sure you put your own stamp on the place.

MAPS

Another way of checking out a location is by studying a map. Even if you are unfamiliar with an area, by studying a map and checking out the contours, river lines and symbols, you can build up a mental picture of the lie of the land and visualise its potential. Ordnance Survey maps are great, and the 1:25,000 Explorer maps are a good starting point, as these have the ideal mix of detail and coverage. You can then go back online later and check your findings on Google Earth, where you can actually see pictures of the location. I find Google Earth invaluable for planning a shoot, be it a photograph of a building or a landscape. I also use Google Earth to determine the best time of day to photograph my location, such as whether to take morning or afternoon shots.

LOGISTICS

Planning your route to the location can be done either the old-fashioned way, using a map, or by using a sat nav device. Depending on your chosen day of shooting, you may have to take into account traffic levels and whether the morning or evening rush hour will affect you arriving in time for sunrise or sunset. Having some parking spots in mind will also avoid wasted time when you get to the location, and you should have a rough idea of how long it will take you to get from your car to the place where you plan to set up your tripod. This is particularly important if you plan to arrive at your venue in the dark. Booking bed & breakfast or campsite accommodation overnight, or checking the opening times of a particular garden you want to visit, are also necessities that need forward planning.

TIME OF DAY, WEEK, YEAR

Once you have decided on your location, you need to work out the best time to photograph it. You may well arrive at exactly the right moment, when the light is perfect, but if you don't do some homework beforehand you might have to make a return trip.

The first thing to decide is the best time of day. Where should the sun be positioned to light the scene perfectly? Should it be a morning shot or does it look best in the late afternoon? How will you capture the view? Will sidelight work best or are you going to attempt an into-the-light view at sunrise?

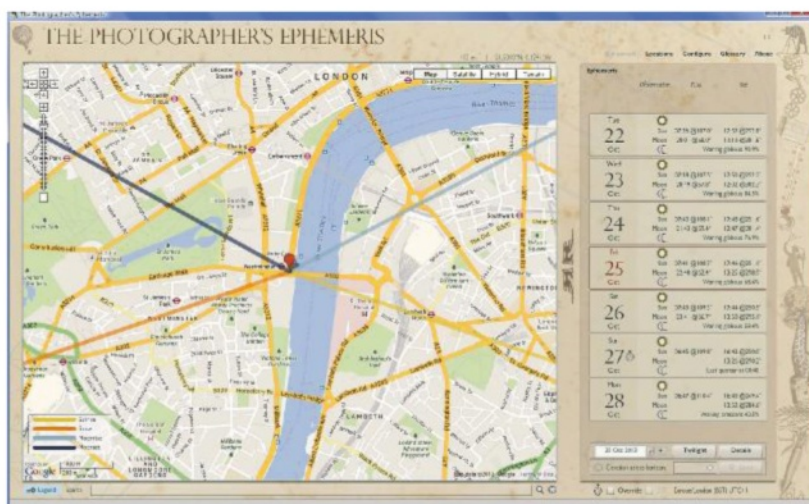
To calculate these factors, you need to know the direction your chosen scene or subject faces – and a good compass can prove invaluable. By using a compass you will know exactly what time of the day you need to be in your chosen spot to get it at its best. However, you can also do this from home using Google Maps.

The day of the week can play an

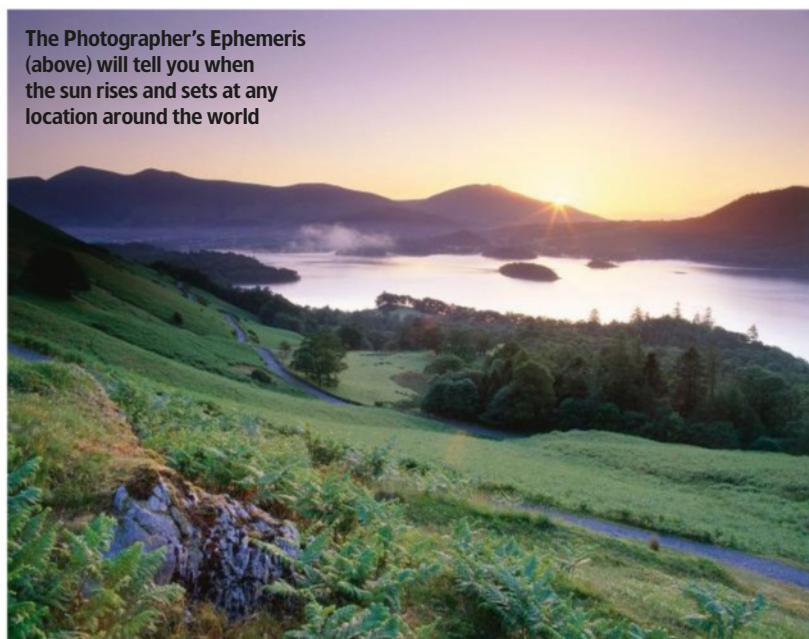




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The Photographer's Ephemeris (above) will tell you when the sun rises and sets at any location around the world



USEFUL APPS

YOUR smartphone is your best friend when it comes to planning and you can even plan while you are on the go. Here are some useful apps to try.

- The Photographer's Ephemeris: Find the sun position for your chosen location
- Aye Tides: Tide times around the world for as far into the future as you wish
- Google Maps: Maps on the go
- Flickr: View other photographers' versions of your chosen location
- FlickrStack: Search Flickr for images that are tagged near your location
- BBC Weather: Up-to-the-minute weather forecasts
- Darkness – Sun, Moon: Find out exactly what time sunrise and sunset will be

Preparation is the key to a successful shoot. Make sure you have ticked off your personal checklist before you go, because once you are in the field you will be kicking yourself if you forget something trivial, yet important to the shoot.



important part in the planning of a shoot, particularly how other people can affect your plans. For example, I find that urban shots are best taken on a Sunday morning, while most people are still in bed, whereas landscape images are best timed for a weekday shoot when those same people are busy at work rather than wandering around the countryside on a weekend stroll. Also, as already mentioned, don't forget that traffic can have a big effect on the time it takes you to get to your chosen location.

Finally, consider the time of year when you are planning to shoot your location. If a location is worth photographing, then it's worth photographing at the ideal time – and that may mean coming back in four months in a different season. Alternatively, the sun may not rise exactly to the left of the mountain you have chosen to photograph until mid-December, so a July shoot will not produce perfect results. However, if you have planned your shoot properly you will already be aware of this.

SUN POSITION

While Google Maps is very useful, it won't tell you when and where the sun will rise or set. To find out the position of the sun, or the moon, at any time of day and at any venue, use The Photographer's Ephemeris. This map-centric sun and moon calculator will help you plan your outdoor photography shoots in natural light. So, for example, you can find out when and where the sun will rise in relation to a mountain, or even when it will light the street around a new skyscraper in an urban location. As well as being available as a PC or Mac program, it is available to download as an app for your smartphone.

WEATHER FORECAST

As light is one of the key aspects to a successful landscape image, keep an eye on the weather forecast so you can head off to your chosen location at just the right time.



Quick Tides provide tidal information up to two years in advance so you can choose the time to take your shot to produce the effect (see right) that you want



Watch the forecast for a period of good weather, although it should be noted that a ridge of high pressure is not always the best time to shoot a location. This may provide spells of sunny weather, but a stunning landscape under a clear-blue sky is not always the best combination. Changeable conditions will offer more dramatic weather, and although it will increase the chance of rain, it can also offer the chance of brief spells of stunning light against a dark, broody sky, or even the odd rainbow.

Weather approaching from the north is a good sign for photographers, as it can offer the chance of some good light. A high-pressure weather system does have one distinct advantage, though, as, depending on the time of year, it can produce mist in valleys or over water.

TIDES

You will need to know the tide times if you are shooting on the coast. For example, if you are shooting a sunrise on the east coast, you will probably want to time your shot to coincide with a low or receding tide to make use of the rippled sand or underlying rocks in the foreground of your picture. Therefore, you need to know when low tide coincides with sunrise at that location, at that time of the year. There are several ways you can find this information, with the internet being the obvious one, where you'll find numerous

websites offering tide timetables for a given location for the week ahead. For more forward planning, you can buy tide tables that cover two years in advance and these are well worth purchasing if you regularly shoot along the coast.

SET A SCHEDULE

Once you have amassed all this information, you can then set yourself a loose schedule to make the most of the day. Choose two morning locations and two afternoon locations, and make sure that you don't have to travel too far between each. If things go well, you may be able to return to one venue for a sunset shot or even go on to shoot a night view if the location suits.

PLAN B

As part of your schedule, always be prepared for the worst and have some reserve locations in mind if rain or cloud stop play. Waterfalls are a good choice, and it's often best to shoot these on an overcast day when there is less contrast and you can benefit from the low light levels to obtain long shutter speeds. A wood or forest may also provide shooting opportunities and, again, they work best on overcast days. In town, you may be able to find places where you can shoot inside a building so you can add to your range of shots of a particular town. **AP**

PREPARE YOURSELF

DON'T forget to think about your own personal preparations before you set out on a shoot. This means making sure you are prepared for all weathers, so adequate clothing and waterproofs need to be considered. If you are shooting on the coast, remember to take a pair of wellies as they may help you get that elusive angle you desperately want without getting your feet wet. Take some food and drink with you, rather than buying some on location, as the last thing you want to do is stop your shoot because you are hungry. Finally, make sure your camera gear is fully prepared. Check that you have all your memory cards or rolls of film, and that your battery and spare batteries are fully charged. If you need to clean your sensor, do this at home and take a cloth to wipe your lenses clean during the day.

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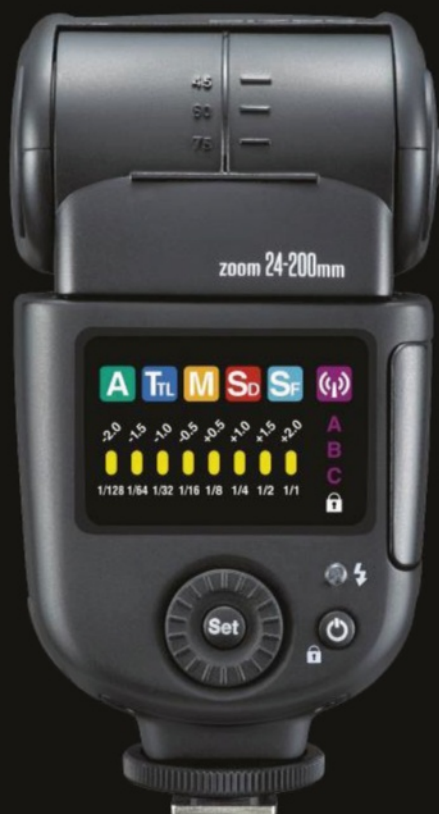
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AP Testbench

Over the next few pages we present this week's **equipment tests**, **reader questions** and **technique pointers**

Delkin Fat Gecko Triple Mount Around £90

www.delkin.com

DELKIN'S Fat Gecko Dual Mount camera support has been upgraded to include a third arm for extra stability. Three legs, each with a suction cup, form a stable triangle to support up to 8lb (3.6kg) of kit, which attaches via a standard 1/4in tripod mount. Realistically, the Triple Mount is best used with compact and compact system cameras. There is a great deal of flexibility in terms of how the three arms can be arranged, thanks to the six adjustable points that allow the angles to be customised. This means the mount can be used on a variety of surface shapes, provided they are smooth and non-porous.

The cups lock in place with a two-part system that uses the suction-cup button and suction-cup lever to force air out and create a secure hold. It works, if anything, too well: breaking the hold can be a challenge, especially given that the release tabs are very small. Still, it's difficult to fault a product for doing its job.

Jon Stapley



Amateur Photographer
An incredibly secure suction-cup hold makes this a reliable camera mount



The AP guarantee to you

All our tests are conducted by people who understand the product area, as well as photography. We aim to discover any shortcomings, as well as finding those aspects that deserve praise. All our tests are thorough, honest and independent



Olloclip Telephoto + Circular Polarizing Lens From \$99.99 (£64)

www.olloclip.com

THE LATEST in Olloclip's range of lenses designed for the iPhone 4/4S and 5 is a 2x magnification telephoto optic that converts the focal length of the phone's in-built lens to the equivalent of around 70mm. This is great for those wanting to take a range of images on their iPhone, including portraits and candid. The lens slides onto the corner of the phone and is a tight fit. Although it is made of metal and polycarbonate, fitting and removing the lens didn't mark the phone. Optically the telephoto lens is good, with virtually no difference between the standard images and those taken with the additional lens.

A circular polarising filter is included that neatly wedges onto the front of the lens, and by turning the Olloclip around it can also be used in front of the naked iPhone lens. The filter works as expected, cutting down reflections and darkening blue skies. It's a really useful addition for those who use their iPhone for photography. A small adapter also allows the filter to be used with the original fisheye and wideangle lenses of the original 3-in-1 Olloclip. **Richard Sibley**

Amateur Photographer
A useful additional lens for those who use their iPhone for photography



FORTHCOMING TESTS In the next few weeks AP hopes to run the following equipment through the most rigorous testing procedures in the industry...

Panasonic Lumix DMC-GX7

We test Panasonic's brand-new, 16-million-pixel compact system camera, with hinged, high-resolution EVF and improved noise control.

AP 14 September

BenVista PhotoZoom Pro 5

If you ever need to enlarge or reduce the size of your images, PhotoZoom Pro 5 may be the software you need. We put it to the test.

AP 14 September

Testbench: Six of the best

Six of the best third-party battery chargers are put through their paces in our two-page test.

AP 14 September

Testbench: Six of the best

We try out six of the best portable digital projectors in our special issue on ways to display your pictures.

AP 21 September

Canon EOS 70D

We test the EOS 60D's replacement, with new sensor technology, 19 AF points, built-in Wi-Fi connectivity and ISO 100-25,600 (extended).

AP 28 September

amateur Photographer

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Samsung Galaxy NX

Could the 20.3-million-pixel **Samsung Galaxy NX** with Android operating system change the way enthusiast photographers use and think about their cameras?

Callum McInerney-Riley
Technical writer



THERE is a whole generation of photographers who have found a passion for photography through the use of a smartphone. Looking at statistics of the most popular cameras used to upload images to Flickr shows that the top three are all different generations of the iPhone. This highlights the rapidly growing trend of smartphone users for whom a phone is their main camera.

When the time comes for these people to upgrade to a camera with more manual

controls, the leap from smartphone to camera will be quite radical. Many will be looking for the same functionality and usability in a camera that they had in their smartphone. Previously, Samsung has attempted to bridge this gap with the commercially successful Galaxy compact camera. Now, the company has launched the world's first compact system camera with full Android operating system in the form of the Samsung Galaxy NX. By borrowing technology from its range of smartphones, merging the functionality and hardware of the NX300 and adding the screen from the Galaxy camera, Samsung has created a very interesting package.

FEATURES

Inside the Samsung Galaxy NX is an APS-C-sized (23.5x15.7mm) CMOS sensor with

AT A GLANCE

- 20.3-million-pixel, APS-C-sized CMOS sensor
- 4.77in, 1280x720-pixel HD LCD
- Android 4.2 Jelly Bean operating system
- 800x600 electronic viewfinder
- ISO 100-25,600
- 3G connectivity
- Street price around £1,200 body only

a 20.3-million-pixel resolution. This is an identical sensor, and the same DRIME IV image processor, to that featured inside the Samsung NX300. Images can be captured in both raw and JPEG format and saved to either the camera's 16GB internal memory or a Micro SD card.

As a kit, the Samsung Galaxy NX comes with an 18-55mm f/3.5-5.6 lens that attaches using the NX lens mount. This lens features the i-Function button, which allows control of the camera's manual settings via a ring on the lens. A further 13 lenses from the Samsung NX series can be used with this camera, including everything from macro optics to telephotos. We have already seen a 10mm fisheye lens released this year, with Samsung saying it is committed to developing its lens range further.

Undoubtedly, the standout feature of the Galaxy NX is the fact that it is the world's first compact system camera to have an Android operating system. The camera runs the latest Android 4.2 Jelly Bean, which is the same software used on both the Samsung Galaxy S4 and Samsung Galaxy S4 Zoom smartphones. Internally, the camera is almost identical to the S4, although rather than being powered by Snapdragon 600 or Exynos 5 Octa 5410, the Galaxy NX features a 1.6 GHz quad-core processor with



➔ a separate designated 0.8 GHz single-core imaging processor.

Next to the memory-card slot is another slot for a 3G Micro Sim card, which enables the camera to send and receive 3G mobile data (credit or data-plan permitting). Apart from phone calls, this feature unlocks nearly all the functionality of an Android smartphone, including internet browsing, image sharing, advanced in-camera image editing, social media applications and even games, music and e-books, should you wish.

A wealth of other features have migrated from the Samsung Galaxy S4 smartphone into the Galaxy NX camera, among them Bluetooth, Wi-Fi connectivity and GPS. As with other GPS-enabled cameras, geotagging locations is possible, but the Galaxy NX goes further. With the addition of an in-built digital compass and gyroscope sensors, the Galaxy NX

can be used for full GPS navigation.

The Galaxy NX sees the introduction of some new scene modes, such as multi-exposure, miniature, interval shot, beauty face and colour bracket, among others. In total there are 31 scene modes to choose from, although with Android apps the possibility of creative shooting is practically endless. One feature I found really useful was the story album application, which comes pre-installed. It allows the user to take a series of images, arrange them into an album and create their own story book. When satisfied with the result, a photobook can be ordered directly from Blurb.co.uk via the camera's menu.

A couple of other perks when buying a Galaxy NX are that Samsung has included a free copy of the full version of Lightroom 5, which currently costs £102.57 direct from Adobe. As this is the newest version of the software, it is able to handle all

Far right: More detail can be resolved by processing the raw files with the supplied copy of Adobe Lightroom

the latest raw formats. In addition, when linking the camera to the Dropbox cloud storage system, the user will receive 50GB of Dropbox space for two years, which is perfect for creating back-ups and allowing access from other devices.

9/10

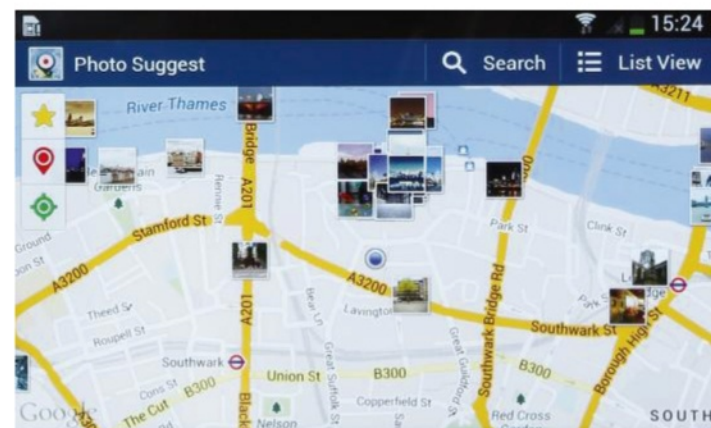
BUILD AND HANDLING

The Samsung Galaxy NX looks very similar in style to the firm's own NX20, although measuring 136.5x101.2x25.7mm the Galaxy NX is larger but with a thinner body profile. The size increase is largely due to the giant 4.77in screen on the back of the camera. This screen covers most of the camera's rear, leaving only a small amount of space for a raised, rubberised thumb grip. Coupled with the large handgrip, it is really comfortable to hold, especially with larger lenses. I find both thumb and fingers have great support.

There are very few buttons on the Galaxy NX as most of the controls are handled by the touchscreen. The main physical control is the mode dial, which is located on the top of the camera. This can be pressed and held in to quickly access Android, or pressed to access different settings and then scrolled left or right to change their values. The same control is also achieved via the i-Function button on the lens. A power button is located to the left of the mode dial, and a designated video record button is located between the mode dial and the shutter. I

Below: The NX series of lenses is fantastic, with many different options. Using a 60mm f/2.8 macro, it's easy to achieve sharp images with a shallow depth of field

'Samsung has included a free copy of the full version of Lightroom 5, which currently costs £102.57 direct from Adobe'



FEATURES IN USE SAMSUNG PHOTO SUGGEST APP

PRE-INSTALLED on the Samsung Galaxy NX is an app called Photo Suggest. This shows places of interest near your location and suggests things to photograph. The in-built GPS needs to be active and a Wi-Fi or 3G internet signal needs to be obtained to allow the app to work. It will then pinpoint your location on a map and pull images that have been taken by other photographers from Panoramio (www.panoramio.com). The user-uploaded content is only as good as the photographers, but around central London there were plenty of

good-quality images to look at.

Once you find an image you like, a button on the left side of the screen creates small thumbnail previews in the camera screen to allow you to replicate it. If, like me, copying isn't your thing, this app is still great for gauging what the generic shots are and seeking out a fresh angle. In more rural areas, the standard of images tends to be quite poor, although it does give a sense of what the landscape is like. Using this app, I found out there was a lake in the middle of a forest that I previously didn't know about, so it has its advantages.



Raw processed



Original JPEG

METERING

The Galaxy NX has the same 221-segment TTL metering system featured in previous NX models, such as the NX300, NX210 and NX200. Previously, we have rated the metering system's performance well, and noted little need to alter the exposure valuation for most situations. It was only in conditions where we can expect the metering to be thrown that slight alterations need to be made.

The Galaxy NX has that exact same level of performance as the NX300, but the camera excels over previous NX models by virtue of its 4.77in touchscreen, which allows precise control of its spot metering. This is easy to use, returns good results and can also be linked to a focus point for quick and easy control. In use, I found that multi metering and spot metering adequately covered the majority of situations.

8/10

DYNAMIC RANGE

Previewing the histograms of images I took in Lightroom showed that detail in shadow areas was rarely blown out and plenty of detail remained in both the shadow and highlight areas. In a variety of situations I found the Galaxy NX to strike a great balance between highlights and shadows, even in high-contrast scenes. Using the supplied Lightroom 5, I was able to lighten shadow areas in raw files and pull back a lot of detail.

Samsung provides two different dynamic range settings in the



found these physical controls to be quicker when changing settings than using swipe gestures on the touchscreen, but the two methods mean that you will quickly settle on a way that suits you.

The control layout of the camera menus are intuitive and open to lots of personal customisation, which is something that I feel makes the camera stand out from the crowd. Certainly, the camera controls are far from traditional – in fact, the controls are more closely related to those of a smartphone than a traditional camera layout – but they are easy to pick up even after only a short time of use.

The Android operating system is fantastic. It unlocks a great deal of the camera's

potential and it works brilliantly. I downloaded several applications to the Galaxy NX and found all of them to work without a hitch. Image editing was quick and effective using Adobe Photoshop Touch, and linking the device with my home Wi-Fi allowed me to automatically upload to Dropbox.

The start-up time on the Galaxy NX is a little complex. When the camera is first turned on it takes around 23secs to boot the Android operating system and get into the camera mode. Once fully booted, the camera goes into sleep mode when powered off and takes just over 1sec to start-up into camera mode thereafter. If the battery is removed or the camera is left inactive for 48 hours, the Android system will again need to be booted up, taking the full 23secs before the camera is ready for use. I found that when the camera was in sleep mode, the battery dropped by just 1% over a 12-hour period of inactivity. Samsung has said that sleep mode uses only 1.8% of the power that would be used if the camera remained on. This is an effective way around the long Android start-up time.

As a result of having a lot of hardware to process in-camera, the Galaxy NX has a huge 4,360mAh battery. Comparatively, this is nearly four times the capacity of the NX300's 1,130mAh battery, but it is most certainly needed to power the large 4.77in touchscreen and Android OS. Much like a smartphone, the battery life can vary depending on use. I found that when I used the camera with the brightness turned to 50% and everything turned off, the battery drained by around 30% after 100 shots. Also, using the EVF uses less battery. Turning on Wi-Fi, GPS, using apps, uploading images and editing photos in-camera is power-intensive, and drains the battery much more quickly.

Below: The Galaxy NX can shoot with effects that are processed after the shot. However, the resolution of the images changes to either 3888x2592 (3:2) or 3712x2088 (16:9)



7/10



Galaxy NX. The Smart Range+ is an in-camera dynamic range optimiser that lightens shadow areas while preserving the highlights to allow a boost in tonal detail. The HDR mode, on the other hand, takes three images of varying exposure and stitches them together in-camera. This is an automatic setting so unfortunately it cannot be adjusted. Thankfully, both of these options give a nice subtle boost to the images and complement the scene.

8/10

AUTOFOCUS

Samsung has opted for the same advanced hybrid autofocus system in the Galaxy NX as in the NX300, consisting of 105 phase-detection and 247 contrast-detection points. Samsung claims the phase-detection points that work in the middle portion of the frame are the quickest, while the contrast AF points that work across the entire frame are the most accurate. Theoretically, combining these should result in quick and accurate AF.

In bright conditions, the AF is as quick and as accurate as you would expect from a similarly priced compact system camera. In low-light conditions, the autofocus spends a while hunting for focus, often taking a couple of seconds and on occasion missing completely. The focus assist beam does offer some help in finding focus in low light, but due to its placement on the camera the beam is commonly obstructed when using a larger lens or a lens hood. An alternative placement situated further from the lens mount would solve this problem.

Selecting a point of focus by touching the 4.77in screen makes autofocusing incredibly easy, and it was most certainly my go-to option when using the camera. It's much faster than finding a focus point manually and offers more control over automatic AF points. Undoubtedly, this is one of the significant benefits of a large touchscreen with 247 focus points.

Also of note is that the Galaxy NX adopts the focus-peaking feature of the NX300. This allows the user to manually preview a highlight around the outline of areas that are brought into focus. This outline varies in intensity to indicate optimum focus and the colour can be set to red, white or green. An on/off controllable feature called MF assist aids in manual focusing by zooming in 5x when the focus ring is moved.

7/10

NOISE, RESOLUTION AND SENSITIVITY

At ISO 800, images show some noise but it is well controlled in both raw and JPEG format. It is not until ISO 1600 that noise starts to become noticeable. Images up to ISO 3200 are usable, but at ISO 6400 luminance and chroma noise start to become evident. This is especially the case at

Facts & figures

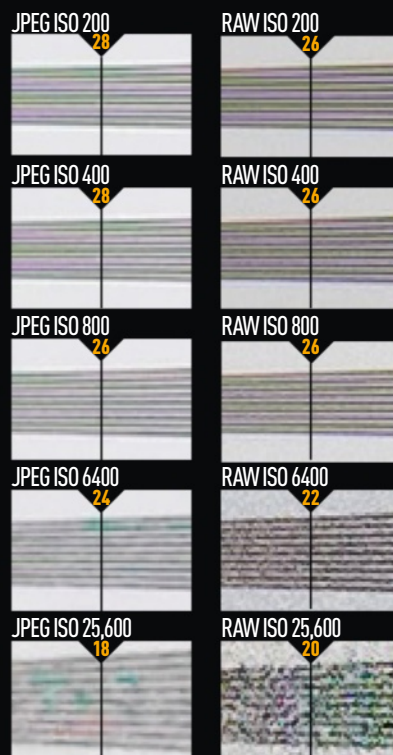


RRP	£1,299 body only
Sensor	20.3-million-effective-pixel CMOS
Operating system	Android 4.2 Jelly Bean
Output size	5472 x 3648 pixels
Focal length mag	1.5x
Lens mount	Samsung NX
File format	JPEG, SRW (raw)
Compression	Normal, Fine, SuperFine
Colour space	Adobe RGB, sRGB
Shutter type	Focal-plane shutter
Shutter speeds	30-1/6000sec + bulb (max 4mins)
Max flash sync	1/180sec
ISO	100-25,600
Exposure modes	PASM, user, my mode, auto, smart
Metering system	221-block segment TTL metering, with multi, centreweighted and spot
Exposure comp	±3EV in 1/3EV steps
White balance	Auto, 4 presets, custom and manual
Drive mode	Single, continuous, burst (5M size only). JPEG: high (8.6fps), normal (up to 5fps) selectable burst, 10fps, 15fps, 30fps selectable, 30 shots by 1 release. Raw: high (8.6fps), normal (up to 5fps) selectable
LCD	4.77in, 1280x720-pixel resolution
Viewfinder type	Electronic (800x600)
Focusing modes	Single, continuous, manual, touch AF
AF points	105 phase-detection pixels and 247 contrast-detection AF points. Single-point, 21 multi-point, 35 close-up, face detection
DoF preview	No
Built-in flash	TTL auto pop-up
Video	1920x1080 pixels (30fps), 1920x810 pixels (24fps)
Memory card	Micro SD, SDHC, SDXC
Power	Rechargeable B735EE Li-Ion (4360mAh with 440-shot life)
Connectivity	USB 2.0, mini HDMI
Weight	410g (without battery or card)
Dimensions	136.5 x 101.2 x 25.7mm

Samsung. Samsung House, 1,000 Hillwood Drive, Chertsey, Surrey KT16 0PS. Tel: 01932 455 000. Website: www.samsung.com/uk

RESOLUTION & NOISE

These images show 72ppi (100% on a computer screen) sections of images of a resolution chart, captured using the 18-55mm lens set to 35mm and f/5.6. We show the section of the resolution chart where the camera starts to fail to reproduce the lines separately. The higher the number visible in these images, the better the camera's detail resolution is at the specified sensitivity setting.



At ISO 3200, JPEG images have heavy noise reduction applied in-camera. This makes the images appear smudgy and soft

FOCAL POINTS

Dioptr adjustment

With many cameras, the dioptre is adjusted using a small dial that is very fiddly and easy to knock, but on the Galaxy NX it is well designed, large and easy to use

Pop-up flash

The built-in pop-up flash has a guide number of 11m @ ISO 100 and wideangle coverage of 28mm (equivalent)



Camera shown actual size

Charging via Micro USB

The battery is charged via a Micro USB, which is supported by many mobile devices. Portable chargers are inexpensive and great for some extra power on the go

HDMI port

This will allow the user to connect the camera to a TV or projector to display images

Settings menu



Android home screen



Shooting screen





the maximum ISO 12,400 setting. I think ISO sensitivity of 100–800 is a good working range for both raw and JPEG images, striking a good balance between noise and detail resolution. Images taken at ISO 800 would still be fine for A3 prints without noise being a problem. JPEG images do appear softer and it is clear to see that some in-camera noise reduction has taken place even at the lowest sensitivity setting of ISO 100, although for certain pictures it complements the images. At ISO 1600, very detailed areas start to become really soft because of the in-camera noise reduction.

27/30

WHITE BALANCE AND COLOUR

The Galaxy NX's images were consistently colour accurate and true to the scene. The overall colour is very neutral and even vivid scenes did not appear oversaturated. On occasions, dull scenes appeared better after a slight tweak in saturation to make the colour 'pop'. Interestingly, the Galaxy NX doesn't have traditional colour profiles like most cameras. Instead, the profiles offer the ability to change colour, saturation, sharpness and contrast in the settings menu, although different profiles cannot be stored and switched. Samsung does offer a huge number of smart modes for different colour control, but this is a post-capture process. Also, inside the Google Play store, there are hundreds of apps that support colour profiles, filters, black & white and more, all of which can be downloaded to achieve a specific look.

On the whole, AWB was accurate even in challenging conditions. However, all the standard white balance settings are available, including daylight, cloudy, tungsten, flash, custom, Kelvin and three different settings for fluorescent light. The interesting thing about these settings is that they can be altered to optimise colour accuracy, should you find the preset to be slightly amiss. An easy-to-use RGB menu allows you to control this simply by shifting the centre point towards a desired tone.

In the white balance menu is a custom

With the addition of Adobe PS Touch for Android and using the 4.77in LCD display, it is easy to process an image in-camera and upload it straight to the web

Kelvin setting that can be changed using a swipe gesture while previewing the scene on the LCD. It allows the user to tweak the white balance quickly and decide how warm or cold the images look. I find this the most effective way of altering the white balance.

8/10

VIEWFINDER, LIVE VIEW, LCD AND VIDEO

At 4.77in, the screen on the Galaxy NX is the biggest found on any compact system camera to date. It has the same 720p resolution as the Samsung Galaxy compact camera, which makes it class-leading in terms of resolution. While fingerprints on the touchscreen were impossible to avoid due to its size, they thankfully presented no problems when shooting.

In use, the Super Clear HD LCD is great in both bright sunny conditions and in low-light situations. I was very impressed with the viewing angles offered by this screen and how well it prevented reflections.

On occasions where I found myself shooting in really challenging situations, such as harsh sunlight, I opted to use the built-in electronic viewfinder. This viewfinder is clear, responsive and offers an approximately 100% field of view. However, the proximity sensor that shuts off the main LCD and activates the EVF has a frustrating delay. I found myself putting the camera to my eye and waiting nearly 1sec before anything were visible through the EVF. If a shot needs to be taken quickly, I found it best to stick with the LCD.

The Galaxy NX outputs video in full HD at 1920x1080-pixel resolution at 25fps, and is also capable of shooting 50fps, which is good for slow-motion, although the resolution is cut to 1280x720 pixels. The ability to use touch AF in video is brilliant, although the sounds of the lens motors are unfortunately picked up by the in-built microphone.

8/10

Competition



Sony NEX-7

TESTED AP 15 OCTOBER 2011



Samsung NX300

TESTED AP 27 APRIL 2013

IT IS IMPOSSIBLE to compare the Samsung Galaxy NX directly with any other camera because it is unique in the fact that it is the only compact system camera to feature an Android operating system. If Android is of interest, then the same functionality is offered by both the Samsung Galaxy compact camera and the Samsung Galaxy S4 Zoom smartphone, but each of these lacks the image quality, among other shortcomings, when compared to the Galaxy NX.

Excluding the Android OS, the closest competition is Samsung's own NX300, as it includes many of the same features and produces similar image results. Alternatively, the Sony NEX-7 features a 24.3-million-pixel sensor and has a street price of around £730 body only.

Verdict

ESSENTIALLY, the image performance of the Galaxy NX is on a par with the NX300, with the added advantage of a bigger screen that improves the usability of the touchscreen AF, previewing photos and spot metering. The big selling point is the Android operating system, and I think having the ability to edit in-camera, create time-lapse videos and share across social media, among a wealth of other things, is fantastic.

The images the camera produces are good, but the AF is slow in low light and high ISO sensitivity makes JPEGs soft. It is not the best image quality we have seen from a compact system camera, but the Galaxy NX is mostly about functionality and it is not aimed at professionals. Rather, it is aimed at people who either want all the functionality of Android or people who want to advance their photography from a smartphone or the Samsung Galaxy compact camera.

	1	2	3	4	5	6	7	8	9	10
Amateur Photographer										
Tested as an Enthusiast CSC										
Rated Very good										
82%										
FEATURES										9/10
BUILD/HANDLING										7/10
NOISE/RESOLUTION										27/30
DYNAMIC RANGE										8/10
AWB/COLOUR										8/10
METERING										8/10
AUTOFOCUS										7/10
LCD/VIEWFINDER										8/10

Improve your photography



'I started with the SPI Foundation in Photography in 2009 and learned so much from this course. I always look forward to getting feedback from my tutors and I am currently completing the Foundation in Digital Imaging Techniques course.' **Ross Mackenzie**



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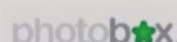


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CHARGING BATTERIES

Q In AP 3 August, technical editor Richard Sibley gave 5 stars to the Mophie reserve battery in *Testbench*. It looks like a useful back-up for cameras whose batteries have limited capacity, allowing recharging via a USB connector. However, I have checked the instructions for several Canon and Olympus cameras, but none of them mentions charging through this port. Nor is charging of cameras suggested in the description of the device on Apple's website. Charging of camera batteries uses heavy currents – a good fraction of an amp – that might damage a camera's wiring in a prolonged charge. So, this should only be done where it is recommended, as in other devices normally charged in this way. **Paul Murphy**

A Not all cameras charge via a USB port, but it is becoming increasingly common for compact cameras and some compact system cameras to utilise the potential to charge the battery in this way. I would suggest that Apple doesn't acknowledge the device for the charging of cameras for the simple reason that Apple doesn't manufacture cameras. **Richard Sibley**

DIRT ON SENSOR

Q Recently my photos have come out with what I think are specks of dust on them. I have cleaned the lenses and my Sony Alpha 390, but it still appears on all my photos and has kind of rendered my camera useless. What I can do? **Kirsten Reilly**

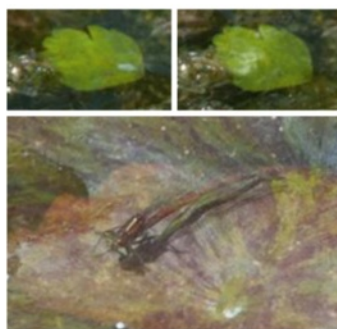
A Looking at the image you've linked to on the AP Forum, this appears to be a classic case of dust on the camera's sensor. I can see why you might not want to use the camera – there are a lot of specks on there, including some that look like hairs. Given the extent of the dust, I suggest getting the sensor cleaned professionally. And that when you change lenses ensure the camera is switched off to reduce the dust-attracting charge on the sensor. Do it with the camera aimed down, so gravity doesn't drop dust straight into it, and choose a sheltered spot.

If you'd like to see advice given by other readers go to the forum at www.amateurphotographer.co.uk. **Chris Gatum**



DOUBLE TROUBLE

Q In my innocence, I would have expected an unintentional double exposure to be impossible on a DSLR. The picture above is proof that I was wrong. There are two completely different exposures on this single frame (look for the damselfly) taken with my Nikon D300 and 18-200mm Nikkor lens. As far as I am aware I did nothing out of the ordinary, and certainly nothing deliberate, so how can this happen? **Clive Brown**



A I'm not sure I can answer this conclusively, Clive, but looking at your image the elements clearly appear twice in the shot, which suggests a multiple exposure. As the D300 has a multiple-exposure option, this is definitely something the camera is capable of, but you would need to perform several button presses to activate it. It's definitely not something that you would do accidentally.

The Exif information doesn't give me any obvious answers, either. It appears to be complete, confirming the equipment used and telling me that the flash didn't fire and the exposure was 1/100sec at f/11 and ISO 200. So,

ultimately, I'm left with the following list of 'suspects', but no definite culprit:

- The camera's multiple-exposure facility was activated (from the Shooting Menu)
- Two files were combined post-capture using the Image Overlay option (from the Retouch Menu)
- The camera (or card) had some sort of electronic 'wobble' and this is a corrupt image (admittedly, very unlikely given that the double image is the only anomaly)
- This is a Photoshopped 'spooft'

Do any AP readers have some other suggestions as to how this might have happened? **Chris Gatum**

AP GLOSSARY

DMax

In scanning, DMax is a term used to refer to the maximum density that a scanner can see detail in. It's useful because it can give you an idea of the potential dynamic range that a scanner is capable of recording. The higher the DMax, the better the scanner is at penetrating the darkest areas on a photograph, and therefore the greater its dynamic range.

While it is a useful figure, it only really becomes important when your aim is to scan transparencies. This is because the orange base of a colour negative and the grey base of a black & white negative immediately reduce the dynamic range of negative films, as there is no 'white'

in either. This effective reduction in the contrast of the film makes it much easier for a scanner to record the full tonal range in the image. However, slide film has a transparent base that can be seen as pure white. Therefore, when you make a scan to retain the highlight areas in a slide, the DMax is the determining factor in how much detail is recorded in the darker areas before they are simply seen as black.

Generally, a DMax of 4.0 is seen as the value that will accommodate even the most contrasty of slide films, therefore scanning as much highlight to shadow detail as the film itself can record, but this comes with a significant caveat. The DMax figures given by scanner manufacturers are 'theoretical maximums', rather than measured values. So, while DMax can be used as a guide to a scanner's potential dynamic range capabilities, it is by no means absolute.

SCANNING FILM

Q I have a collection of old 35mm slides and negatives that I would like to digitise to 'library' standard. Some of the photographs were taken by my late father and have some historical interest. I'm not talking about digitising a huge collection, more a case of selecting images of particular interest. I am happy to take my time to get quality results. If my understanding is correct, this would be a job for a dedicated film scanner with a minimum dynamic range of 4.0.

My budget is around £300, which obviously excludes very high-end professional scanners, so could you tell me what kit is available to cope with this task? I have considered using a scanning service, but would prefer not to send the material off to third parties as I would like to have control over the whole process myself. **Mike Village**

A I suggest you aim for high-resolution files of around 50MB when you scan the film. Although this is larger than the minimum size requirements of many image libraries, it will mean the images could be printed at 300ppi to A3 size.

You will need a scanner with an optical resolution of at least 4000ppi to achieve this. If you want to buy new, then Plustek's OpticFilm range of dedicated 35mm film scanners offer resolutions far in excess of this (7200ppi) at £200-£350, depending on the model. However, while the optical resolution is high, the DMax (see *Glossary*, above) is not: all current 35mm OpticFilm scanners have a DMax of 3.6.

For this reason, I suggest that a slightly older 'premium-priced' model will give you far better results. Models to consider include the Nikon Coolscan V ED and Coolscan 5000 (pictured), as well as the Minolta Dimage Scan Elite 5400 and 5400 II. Although these were discontinued years ago, they are still three of the finest 35mm film scanners ever made. Each has the optical resolution needed to create a 50-60MB file size from 35mm film (the Coolscans are 4000ppi units, while the Dimage 5400 has a 5400ppi optical resolution), and all three have a DMax that will prove a match for the vast majority of slides (4.2 for the Coolscan V ED and 4.8 on



the Coolscan 5000 and Dimage 5400).

The downside is that these scanners are no longer in production. Looking at eBay's 'sold' listings for these models reveals that they all pop up from time to time, but despite being 'obsolete' the Dimage 5400 and Coolscan V ED still sell for £400-plus, with the Coolscan 5000 the only one that is around your £300 budget.

You would also probably need to budget for scanner driver software, as none of the manufacturers supplies drivers that are compatible with modern Windows and Mac operating systems. VueScan from www.hamrick.com is an excellent option, with the Standard Edition, which is compatible with each of the printers mentioned, costing \$39.95 (around £25). **Chris Gatcum**

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CANON 75 - 300mm 1/4.5 5.6 MK III	..	MINT BOXED	\$115.00
CANON 75 - 300mm 1/4.5 5.6 USM MK III (LATEST)	..	MINT	\$145.00
CANON ST-2 SPEEDLITE TRANSMITTER	..	MINT BOXED	\$125.00
CANON 52mm CLOSE UP LENS TYPE 2500	..	MINT BOXED	\$460.00
CANON EF 1.4 EXTENDER MK II	..	MINT	CASSED \$265.00
CANON EF 2.0 EXTENDER MK II	..	MINT	CASSED \$199.00
CANON EF 2.0 EXTENDER MK II	..	MINT	CASSED \$238.00
CANON EF 2.0 EXTENDER MK II	..	MINT	CASSED \$225.00
KENKO TELEPLUS PRO 300 DGG 1.4 TELECONVERTER	..	MINT	BOXED \$159.00
KENKO TELEPLUS PRO 300 DGG 2.0 TELECONVERTER	..	MINT	BOXED \$165.00
TELEPLUS M7.7 ELEMENT 2X TELECONVERTER	..	MINT-	\$99.00
CANON 540 EZ FLASH + INST	..	MINT	BOXED \$68.00
CANON 540 EZ FLASH + INST	..	MINT	CASSED \$59.00
CANON 420 EZ FLASH	..	MINT	CASSED \$36.00
CANON ANGLE FINDER B	..	MINT	BOXED \$79.00
CANON LC3 TRANSMITTER AND RECEIVER	..	MINT	\$115.00
CANON PB-E1 BOOSTER FOR EOS 1/3 etc	..	MINT	BOXED \$59.00
SIGMA 70-200 F2.8 ASPHERIC SLR CLASS	..	MINT BOXED	AS NEW \$445.00
SIGMA 100mm 1/8 EX DO FISHEYE HM	..	MINT BOXED	\$345.00
SIGMA 20mm 1/8 EX DO ASPHERIC RF (LATEST)	..	MINT	BOXED \$325.00
SIGMA 20mm 1/8 EX DO ASPHERIC RF (LATEST)	..	MINT	\$285.00

SIGMA 150mm f2.8 DG MACRO SUPERB SHARP LENS	MINT BOXED \$245.00
SIGMA 150mm f2.8 DG APD MACRO LENS	MINT BOXED AS NEW \$335.00
SIGMA 600mm f8 MIRROR LENS MC MACRO	EXT+ - CASE \$295.00
SIGMA 10-18 24mm f4.5 EX DC HSM	MINT+CASE \$295.00
SIGMA 12 - 24mm f4.5/5.6 EX DG HSM + HOOD	MINT BOXED \$395.00
SIGMA 20-40mm f2.8 EX ASPHERICAL DC	MINT BOXED \$245.00
SIGMA 24 - 70mm f2.8 EX DG MACRO + HOOD	MINT+CASE \$295.00
SIGMA 28 - 300mm f3.5/6.3 ZOOM MACRO	MINT+HOOD \$79.00
SIGMA 30 - 300mm f4.5/6.3 APO MACRO + HOOD	MINT - \$59.00
SIGMA 70 - 500mm f5.6 APO COMP WITH HOOD	MINT-CASED \$395.00
SIGMA 28 - 75mm F2.8 XA EX F1 ASPHERIC	MINT BOXED \$245.00
TAMRON 28 - 75mm F2.8 XA EX F1 VIBRATION CONTROL	MINT \$245.00
TAMRON 10 - 17mm f3.5/5.6 AT X-D LENS LATEST	MINT \$245.00
CANON FI AE BODY 1964 LOS ANGELES OLYMPIC EX MINT BOXED NEW F1,095.00	
CANON AUTO BELT MOUNT	MINT \$99.00

Contax 'G' Compacts & SLR & Ricoh

CONTACT G2 BODY W/ STRAP & MANUAL	MINT	\$399.00
CONTACT G2 BODY	MINT BOXED	\$199.00
CONTACT G1 BODY	MINT	\$189.00
CONTACT TX TITANIUM COMPACT + LEATHER CASE	MINT CASED	\$399.00
CONTACT 21mm G2 2 BIGNON T* W/ FILTER & FINDER	MINT CASED	\$99.00
CONTACT 21mm G2 2 BIGNON T* + FILT & CONTACT HOD/CAP	MINT CASED	\$296.00
CONTACT 35mm 12 PLANAR T* + FILT & CONTACT HOD/CAP	MINT CASED	\$365.00
CONTACT 45mm 45 SONAR WITH TIT & HOD/CAP + FILTER	MINT BOXED	\$299.00
CONTACT 45mm 45 SONAR 4* + HOD/CAP	MINT	\$199.00
CONTACT 90mm 22 SONAR 9* + HOD	MINT-BOXED	\$219.00
CONTACT 114 L40 FLASH FOR G1/G2		\$625.00
CONTACT TLA 200 FLASH FOR G1/G2	MINT CASED	\$99.00
CONTACT G01 DATABASE FOR CONTACT T3	MINT-BOXED	\$99.00
CONTACT SA-2 FLASH ADAPTER	MINT	\$35.00
CONTACT TITANIUM FILTERS, HODS AND CAPS FOR G.	PHONE IN STOCK	
CONTACT 15mm F2.0 SONAR M* W/ B&W HOOD	MINT	\$399.00
CONTACT AXIA BODY (STRAP INSTRUCTIONS)	EXC+BOXED	\$199.00
CONTACT FIT VASHICA 22mm 12 SUPERB CONDITION	MINT	\$66.00
CONTACT 25mm 12 DISASTAGN T* MINT	MINT BOXED	\$295.00
CONTACT 40mm 22 TESSAR T* PANKACE LENS + HOD	MINT	\$225.00
CONTACT 50mm 11.7 PLANAR AE		\$145.00
CONTACT 85mm 11.4 PLANAR MINT	MINT	\$425.00
CONTACT 135mm F2.0 SONAR M* W/ B&W HOOD	EXC+BOXED	\$199.00
CONTACT 135mm 22 PLANAR		\$199.00
RIGID GR1 V DATE COMP* & CASE + HOYA FILTER SET	MINT-BOXED	\$395.00

Leica 'M', 'R' & Screw & Binoculars

LEICA M6 TTL BODY CHROME (VERY LITTLE USE)	MINT-BOXED	£1,195.00
LEICA M6 BLACK BODY	EXC+ -BOXED	£695.00
LEICA M4-77 PHOTOGRAPHY 1913-1983	MINT-BOXED	£1,485.00
LEICA M4 MP 2 YEAR BODY	MINT-BOXED	£995.00
LEICA M4 MP 2 YEAR BODY	EXC++	+499.00
LEICA M6a BODY SER No 12659X3 CIRCA 1970	MINT-	£575.00
LEICA M6a BODY SER No 14111XXCIRCA 1975-76	EXC++&+&+&+	£475.00
LEICA M3 BODY SER No 18161X C1946 NEEDS SERVICE	EXC++	£175.00
LEICA HIF 100mm F4.5 ELMARIT ACTON	EXC++	£295.00
LEICA H3 WITH SCOP 13.5 ELMAR	MINT-	£575.00
LEICA CL BODY COMB WITH 40mm F2.8 SUMMILOR	MINT-	£795.00
LEICA CL BODY	MINT-	£495.00
MINTOLA CLe BODY WITH 40mm F2 ROKKOR	EXC++	£499.00
MINTOLA CLe BODY COMPLETE WITH CASE	EXC++	£395.00
LEICA STANDARD CHROME WITH CASE	EXC++&+&+&+	£295.00
LEICA FIT F1 MINTOLA 40mm F2 ROKKOR	MINT-	£495.00
LEICA FIT MINTOLA 40mm F2 ROKKOR	EXC++	£295.00
LEICA 50mm f2.8 MINTOLA BLACK LATEST NOT 6 BIT	MINT-BOXED	£1,175.00
LEICA 50mm f2.8 COLLAPSIBLE ELMAR + LEICA FILTER	MINT-BOXED	£235.00
LEICA 50mm f2.8 SUMMILOR CHROME N	MINT-CASE	£1,275.00
LEICA 50mm f4.5 COLL ELMAR N MOUNT	EXC++N KEEPER	£175.00
LEICA 135mm f2.8 ELMARIT N WITH SPEEDS	EXC++	£275.00
LEICA 135mm f4.5 Hektor + HOOD M MOUNT	EXC++	+99.00
LEICA 135mm f4.5 ELMARIT N KEEPER	EXC++	£1,199.00
LEICA 90mm f4.5 ELMARIT BLACK SCREW	MINT-	£195.00
LEICA 135mm f4.5 Hektor + HOOD SCREW	EXC++	£195.00
LEICA HANDGRIP FOR M8/m8 etc	EXC++-BOXED	£145.00
LEICA HANDGRIP M4-2 FOR M4 etc	MINT-BOXED	£145.00
LEICA R50 BODY BLACK	EXC++-BOXED	£295.00
LEICAFLEX SL BODY CHROME	MINT-BOXED	£299.00
LEICA 50mm f2 SUMMILOR R 3 CAM	EXC++	£299.00
LEICA 50mm f2.8 ELMARIT R3	EXC++	£345.00
LEICA 28 - 70mm f3.5/4.5 VARIO ELMAR R	MINT-BOXED	AS NEW £345.00
LEICA 28 - 210mm f3.5/4.5 VARIO ELMAR R	EXC++	+99.00
ANGENIEUX 70 - 200mm f3.5 FOR LEICA R FT	MINT-BOXED	£775.00
LEICA MOTORWINDER AND STRAP FOR R6 etc	MINT-	£145.00
LEICA FINDER R (14000)	EXC++	£195.00
Minox 10 x 25 BR COMP BINCULARS + CASE	MINT-	£99.00
ZEISS 6x30 MONOCULAR WITH CASE	MINT-	CASE £99.00
ZEISS DIAGONOR 7x14 ANGLD, 15x45 EPICE CASE	MINT-	£119.00
SWANOVISR 8 x 50 S.C.11. RINCULARS WITH CASE	MINT-BOXED	£795.00

Voigtlander Screw & Bayonet for Leica M etc

COSINA 107 LEICA MOUNT SAME AS BESSA L	MINT BOXED	£125.00
VOIGTLANDER 21mm 14 BLACK WITH 21mm FDR+ M RING	MINT BOXED	£395.00
VOIGTLANDER 35mm 12.5 COLOR SKOPAR VHM + M HOOD	MINT BOXED	£289.00
VOIGTLANDER 35mm 11.7 ULT ASP + FILT&HOOD+ M RING	MINT	£365.00
VOIGTLANDER 35mm 11.7 ULT ASP + M RING SILVER	MINT	£299.00
VOIGTLANDER WINDER T	MINT BOXED	£129.00
VOIGTLANDER BESSA SIDE GRIP	MINT	BOXED £45.00
VOIGTLANDER BESSA WINDER / GRIP FOR T & R2	MINT	£115.00
VOIGTLANDER ANGLE FINDER + 15.25mm ADAPTORs	MINT BOXED	£199.00

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BRONICA SD4M 120 MAGAZINE BACK	EXC++ & 595.00
BRONICA SD4M/POLAROID MAGAZINE BACK	MINT BOXED \$95.00
BRONICA 135W BACK FOR SQ VARY RARE	EXC++ & \$165.00
FLUJI 465 45W 5 PROFESSIONAL WIDE 60	MINT-CASED \$395.00
FLUJI 670 670 MM C/W 90MIN 3.5 LENS	MINT BOXED \$675.00
FLUJI 670 670 MM C/W FINDER & HOOD FOR 77II	MINT BOXED \$95.00
MAMIYA 150mm 14.5 W/HD HOOD FOR 77II	MINT BOXED \$475.00
MAMIYA 150mm 14.5 W/HD HOOD FOR MAMIYA 77	MINT \$425.00
MAMIYA 150mm 14.5 SEKOR 2 W/ RZ 67	MINT \$595.00
MAMIYA 250mm 14.5 LENS FOR RZ	MINT \$195.00
MAMIYA 150mm 13.5 A/F FOR 845 A/F	MINT \$295.00
MAMIYA 210mm 14 SEKOR C FOR 645	MINT CASED \$195.00
MAMIYA 110mm 14.5 SEKOR FOR R6	MINT \$169.00
MAMIYA RZ 67 PRO BACK	MINT \$395.00
MAMIYA RZ 67 PRO BACK	MINT \$795.00
MAMIYA 220 BACK FOR RZ 67	MINT \$95.00
PENTAX 55mm 13.5 TAKUMAR SMC FOR 67	MINT \$265.00
PENTAX 50mm 12.5 FOR PENTAX 645	MINT BOXED \$195.00
PENTAX 200mm 14 F/4.5 METER AND HOOD	MINT \$225.00
ROLLEIFLEX 6008 PRO + 80mm HFT LENS	MINT \$995.00
ROLLEIFLEX SCHNEIDER 190mm 14 F/4.5	MINT \$575.00
ROLLEIFLEX 6008 PRO + 80mm HFT LENS	MINT \$995.00
VISTA VUE 145 150MM 1:1.1 LEU M HOOD FOR 608	MINT BOXED \$125.00

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HASSELBLAD SOXXY COMP WITH 80mm CF + A12 BACK.....MINT BOXED AS NEW	E995.00
HASSELBLAD SOXXY COMP WITH 80mm CF + A12 BACK.....	MINT- E825.00
HASSELBLAD 303 Cx BODY + WLF.....	MINT- E995.00
HASSELBLAD 3000CM + 80mm 12.8" T + HOOD BLACK.....	MINT- E675.00
HASSELBLAD 3000CM SOXXY WITH 80mm 12.8" T + HOOD.....	MINT- E995.00
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HASSELBLAD 300mm 14 CF SONNAR CF.....	MINT- E265.00
HASSELBLAD 150mm H 9 SONNAR CF.....	EXC+ E375.00
HASSELBLAD PME 40 MINTED PRISM "UNUSED".....	MINT BOXED AS NEW E995.00
HASSELBLAD 4504 PRO FLASH COMPLETE.....	MINT BOXED UNUSED 1414.00
HASSELBLAD A12 BACK WITH D/SLIDE HOOD.....	MINT BOXED E245.00
HASSELBLAD A12 BACK.....	EXC+ E99.00
HASSELBLAD CW WINDER + REMOTE.....	MINT E299.00
HASSELBLAD PLM PRISM.....	EXC E75.00
HASSELBLAD PM PM.....	MINT E190.00
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NIKON F5 BODY	MINT	\$225.00
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NIKON F4S BODY	EXC++	\$199.00
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NIKON F80 BODY BLACK	MINT-BOXED	\$599.00
NIKON F80 BODY	MINT	\$38.00
NIKON F50 BODY	MINT	\$39.00
Nikon 10.5mm 2.8 G* IF-ED AF DX FISHEYE LENS	MINT	\$399.00
Nikon 10.5mm 2.8 G* IF-ED AF DX FISHEYE LENS	MINT	CASED \$365.00
Nikon 28mm 2.8 G AF	MINT	\$129.00
Nikon 35mm F1.4 G* AF-S PRIME LENS "UNUSED"	MINT	BOXED \$999.00
Nikon 50mm F1.4 AF "D"	MINT	BOXED \$99.00
Nikon 50mm 2.8 AF-AS MICRO NIKKOR LENS	MINT	\$199.00
Nikon 60mm 2.8 AF-AS MICRO NIKKOR LENS	MINT	\$225.00
Nikon 85mm F1.4 AF "D"	MINT	BOXED \$675.00
Nikon 85mm F1.8 AF "D"	MINT	BOXED \$275.00
Nikon 180mm 2.8 AF-ED LATEST LENS	MINT	BOXED \$465.00
Nikon 12 - 24mm H G* IF-ED AF-AS	MINT	BOXED AS NEW \$565.00
Nikon 14 - 24mm 2.8 G* IF-ED AS LATEST NAG HGLSS	MINT	BOXED \$1,195.00
Nikon 17 - 55mm 2.8 G* IF-ED AF-AS + A HOOD	MINT	CASED \$99.00
Nikon 17 - 55mm 2.8 G* IF-ED AF-AS + A HOOD	MINT	CASED \$99.00
Nikon 18 - 35mm 3.5/4.5 F4.0 AF-AS	MINT	BOXED \$369.00
Nikon 18 - 55mm 3.5/5.6 F4.0 AF-S DX VIBR REDUCTION	MINT	\$115.00

NIKON 18- 70mm 03.4/5.6 "D" IF AF F-8 CASED	MINT + H/ROU 1740
NIKON 35- 70mm 03.4/5.6 AF	MINT + H/ROU 1780
NIKON 50- 135mm 03.4/5.6 AF	MINT BOXED 550
NIKON 35- 105mm 13.5/5.6 AF WITH MACRO	MINT 6220
NIKON 80- 400mm 4.5/5.6 D EX VIBRATION REDUCED	MINT 7720
NIKON TC 202 II AF F-8 TELECONVERTER	MINT BOXED 1910
TAMRON 1.4x AF "D" TELECONVERTER NIKON FIT	MINT 5750
KENKO 1.5x EXTENDER TELEPUX SHG DK NIK AF	MINT 5750
NIKON FIT TRI-PLEX EXT. TEL. SET 12mm, 20mm, 36mm	MINT 5460
SIGMA 1.4x EX CONVERTER	MINT CASD 6120
NIKON D200 ACTION FINDER FOR NIKON F4/5E	MINT 11950
SIGMA 50mm f2.8 EX DG MACRO	MINT BOXED 9390
SIGMA 70mm f2.8 EX DG MACRO (LATEST VERSION)	MINT BOXED 9390
SIGMA 180mm f5.6 EX DG MACRO	MINT BOXED 17150
SIGMA 28- 135mm 03.8/5.6 "D" ASPHERICAL	MINT + H/ROU 1980
SIGMA 28- 135mm 03.8/5.6 "D" ASPHERICAL	MINT BOXED 1980
SIGMA 55- 200mm 4/5.6 D MACRO II	MINT BOXED 9390
TOKINA 35mm F2.8 ATX-PRO DX MACRO 1:1 (LATEST)	MINT BOXED 2390
TOKINA 16- 50mm 12.5 ATX-PRO DX AT-X PRO D	MINT BOXED 22750
TOKINA 17- 35mm f4.2 ATX-PRO DX FLX-EXTENDED CLENS MINT BOXED 2390	

Nikon Manual

NIKON F3 HP BODY MINT BOXED (FROM COLLECTION).....MINT "UNUSED" \$595.00	
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NIKON FM2 BODY CHROME.....	EXC+ BOXED \$245.00
NIKON FM BLACK.....	EXC+ \$195.00
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NIKON FE BLACK BODY.....	EXC+ \$140.00
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NIKON 50mm f1.8 AIS.....	MINT	£100.00
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NIKON 105mm f4 AIS MICRO NIKKOR.....	MINT	£275.00
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NIKON PK13 AUTO EXTENSION RING.....	MINT	£69.00
NIKON TC 16A TELECONVERTER A/F.....	MINT	£79.00
NIKON TC 200 CONVERTER.....	MINT	£69.00
NIKON TC 201 CONVERTER.....	EXC++	£89.00
NIKON TC 301 CONVERTER.....	MINT	£145.00
NIKON SB 16 FLASH FOR F3/F2/FM3/F2/F2.....	MINT-CASED	£150.00
NIKON SB 16 FLASH FOR F3.....	MINT-CASED	£75.00

Olympus Manual

OLYMPUS OM4 BLACK	EXC+ \$129.00
OLYMPUS OM3 WITH ZUIKO 50mm f1.4 LENS	MINT- \$475.00
OLYMPUS OM2 BLACK	EXC+ \$115.00
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OLYMPUS 35mm f2.8 ZUIKO	MINT- \$69.00
OLYMPUS 50mm f1.8 ZUIKO	MINT- \$69.00
OLYMPUS 50mm f3.5 MACRO	MINT- \$129.00
OLYMPUS 135mm f3.5 ZUIKO	MINT-CASED \$55.00
OLYMPUS 200mm f4 ZUIKO	EXC+ \$69.00
OLYMPUS 75 - 150mm f4 ZUIKO	MINT-CASED \$59.00
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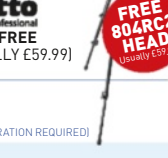


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AF-S 24mm f/1.4G ED £1,469.00	AF-S 50mm f/1.4G £289.00	AF-DC 105mm f/2 Nikkor £799.00	AF-S 800mm f/5.6E FL ED VR See web	AF-S 18-105mm f/3.5-5.6G VR £234.00	AF-S DX 55-300mm VR £239.00
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AF-S 28mm f/1.8G £505.00	AF-S 60mm f/2.8G Micro ED £404.00	AF-D 200mm f/4D IF ED £1,179.00	AF-S 14-24mm f/2.8G ED £1,315.00	AF-S 24-700mm IF ED VR £1,235.00	AF-S 70-300mm IF ED VR £395.00
AF-S 35mm f/1.4G £1,299.00	AF-S 85mm f/3.5G DX Micro £375.00	AF-S 200mm f/2G ED VR II £4,099.00	AF-S 16-35mm f/4G ED VR £829.00	AF-D 24-85mm f/2.8-4 £549.00	AF-D 80-400mm ED VR £949.00

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16.2 MEGA PIXELS 3.0" Screen 6 FPS 1080p Full HD SD card

K-50 Body **£529.00**
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MX-1 **£325.00**

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E-PL5 Twin lens kit **£598.00**

Add a 8GB Flash Air Card for only **£40.00**

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X100s **£999.00**
X100s + NP-95 batt. **£1,033.00***

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X-PRO 1 + 35mm f/1.4 **See web**

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+ Leather case **£354.00**

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16.0 MEGA PIXELS 3.0" Screen Wi-Fi 1080p Full HD SD card

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*FREE batt. & case by redemption - ends 30.09.13

Panasonic DMC-GH3

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GH3 Body **£889.00**
GH3 + 12-35 **£1,599.00**

Add a FL360 external flash for only **£245.00**

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SIGMA

35mm f/1.4 DG HSM

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In stock!

Only £699.00 Sigma 67mm DG MC UV filter only **£24.00** with this lens!

SRP £799.99

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8mm f/3.5 EX DG (Fisheye)	£618.99
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15mm f/2.8 EX DG (Fisheye)	£474.99
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24mm f/1.8 EX DG	£432.99
28mm f/1.8 EX DG	£359.99
30mm f/1.4 EX DC HSM	£259.00
50mm f/1.4 EX DG HSM	£379.00
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70mm f/2.8 EX DG Macro	£369.00
85mm f/1.4 EX DG HSM	£669.00
105mm f/2.8 EX DG OS HSM	£549.00
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800mm f/5.6 APO EX DG HSM	£4,349.99

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10-20mm f/3.5 EX DC HSM	£459.00
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24-70mm f/2.8 EX DG HSM	£599.00

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50-150mm f/2.8 APO EX DC HSM II	£749.00
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SIGMA

17-70mm

f/2.8-4 DC Macro OS HSM
 Mainly used for general-purpose photography, this everyday lens covers a range equivalent to 25.5-105mm on a 35mm camera.



In stock!

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SRP £449.99

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200-500mm f/2.8 EX DG APO	£12,799.99
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SIGMA

120-300mm

f/2.8 DG OS HSM
 Although high-function digital cameras now deliver improved picture quality at high-ISO settings, adjusting your lens to a large aperture is still the most effective strategy for action shots. And even if you have to take the shots from a less-than-ideal position, as is so often the case when shooting sports or on-stage action, this zoom lens, with its maximum focal length of 300mm, lets you open up the aperture all the way to f/2.8.



NEW!

Only £2,799.00 Sigma 105mm DG MC UV filter only **£99.00** with this lens!

SRP £3,599.99

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46.0 MEGA PIXELS	3.0" Screen	5 FPS	MAG ALLOY BODY	CF card
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Sony Alpha a58

Sony Alpha a57



A58 + 18-55 **£379.00** A58 Twin lens kit **£529.00**

Add a Sony LCS-AMB SLR carry case for **only £36.50**



A57 Body **£349.00** A57 + 18-55 **£379.00**

Add a Sony LCS-BP2B backpack for **only £49.99** when bought with the Sony a57 this summer!

Sony Alpha a65

Sony Alpha a99



A65 Body **£529.00** A65 + 18-55 **£589.00**

Add a Sony LCS-BP2B backpack for **only £49.99** when bought with the Sony a65 this summer!



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f/4-5.6 Di LD



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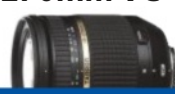


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f/3.5-6.3 Di-II PZD



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Wireless Camera Control



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V2 + 10-30mm Lens **£659**
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S1 + 11-27.5mm + 30-110mm **£519**



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D3200 + 18-55mm f3.5-5.6 G AF-S DX VR **£373**
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D600 From **£1369**

D600 Body **£1369**
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CUSTOMER REVIEW: V2 + 10-30mm

★★★★★ 'Great price for a great little camera' Sid - Lancashire

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CUSTOMER REVIEW: D600 Body

★★★★★ 'Superb replacement for D700' AlphaMan - N.W. England

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The D7100 is a 24.1-megapixel camera with an EXPEED 3 image processor and together they are capable of delivering lifelike full resolution stills at 6fps and full HD 1080p video recording at 30p, 25p or 24p. Other features include an ISO range of 100-6400 (expandable to Hi-2 25,600), 51 Auto Focus points (15 cross types), a 3.2-inch LCD, an optical viewfinder with 100% coverage, dual SD card slots and a 1.3x crop mode.

NEW! D7100 Body £844
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NEW! D7100

From **£844**



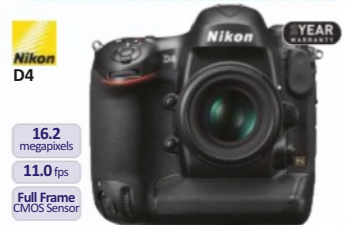
D800 From **£1962**

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D800E Body **£2349**

Nikon D7000

• 16.2 MP • 39 AF Points • 6 FPS Shooting
• 1080p Full-HD Movie Recording

D7000 Body £583
D7000 + 18-105mm VR £728



D4 Body **£4239**



Nikon Capture NX2
System requirements: Windows 7, Vista, XP Professional, Home Edition or Mac OS X 10.4.11, 10.5.4. See web for more details **£132.95**
Nikon Capture NX2 Upgrade **£84.99**

SONY

NEX-6 Black



NEX-6 Body **£539**

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NEX-6 + 16-50mm PZ + 55-210mm **£829**
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A77



A77 From **£729**

A58 + 18-55mm **£379**
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RECOMMENDED LENSES:

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A99 From **£2099**

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Panasonic

G6



NEW! G6 Body **£549**

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NEW! G6 + 14-42mm + 45-150mm £789
NEW! G6 + 14-140mm £939
NEW! GF6 + 14-42mm £399
NEW! GF6 + 14-42mm + 45-150mm £599

GX7



NEW! GX7 Body **£819**

NEW! GX7 + 14-42mm £899
NEW! GX7 + 20mm £999
GX1 + 14-42mm PZ RRP £749.99 **£349**

RECOMMENDED LENSES:

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OLYMPUS

E-P5 Silver, Black or White



NEW! E-P5 Body **£899**

NEW! E-P5 + 14-42mm £999
NEW! E-P5 + 17mm £1349
+ VF-4 Electronic Viewfinder

E-PL5 + 14-42mm **£485**
E-PL5 + 14-42mm + 40-150mm **£649**
E-PM2 + 14-42mm **£399**
E-PM2 + 14-42mm + 40-150mm **£539**

OM-D E-M5 Silver or Black



OM-D E-M5 From **£795**

OM-D E-M5 Body £795
OM-D E-M5 + 12-50mm £949

RECOMMENDED LENSES:

Olympus 12mm f2.0 ED Limited Edition **£899**
Olympus 17mm f1.8 **£399**
Olympus 75mm f1.8 PW EZ **£729**
Olympus 45mm f1.8 **£218**

PENTAX K-5 II



K-5 II Body **£679**

K-5 II + 18-55mm WR **£749**
K-5 II + 18-135mm WR **£949**
K-5 IIs Body **£789**

NEW! K-500 From **£449**
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FUJIFILM

X-M1 Black or Silver



NEW! X-M1 From **£599**

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X-M1 + 16-50mm **£679**

X-E1 Black or Silver



X-E1 From **£629**

X-E1 Body £629
X-E1 + 18-55mm £899
X-Pro1 Body £949

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7.0 fps
1080p movie mode

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70D + 18-55mm f3.5-5.6 IS STM £1199
70D + 18-135mm f3.5-5.6 IS STM £1399

NEW! 70D From **£1079**

Canon
EOS 100D

NEW!



18.0 megapixels
4.0 fps
1080p movie mode

NEW! 100D From **£442**

100D Body £442
100D + 18-55mm f3.5-5.6 £525
100D + 18-55mm f3.5-5.6 IS STM + 40mm f2.8 STM £679

Canon
700D

NEW!



18.0 megapixels
5.0 fps
1080p movie mode

NEW! 700D Body **£499**

700D + 18-55mm f3.5-5.6 IS STM £586
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Canon
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18.0 megapixels
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1080p movie mode

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Canon Cashback* offer ends 31.10.13

Canon
EOS 7D

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8.0 fps
1080p movie mode

£85 CASHBACK*

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7D + 18-135mm f3.5-5.6 IS £1174 Inc Cashback*
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Canon
EOS 6D

20.2 megapixels
4.5 fps
1080p movie mode
Full Frame CMOS sensor

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6D From **£1479**

6D Body £1329 Inc Cashback*
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6D + 24-105mm f4.0 L IS USM £1849 Inc Cashback*
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Canon
5D Mark III

22.3 megapixels
6.0 fps
1080p movie mode
Full Frame CMOS sensor

£2329

5D Mark III Body £2329
5D Mark III + 24-105mm f4 L IS USM £2975
5D Mark III + 24-70mm f2.8 L USM II £4108

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CUSTOMER REVIEW: 5D Mark III +
★★★★★ 'Mind blowing clear photography' Ziela - Ireland

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055XB£113
055XPROB£129
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GIOTTO

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• 19cm Min Height
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YTL9383 Aluminium£124
YTL8353 Carbon Fibre£229
YTL8354 Carbon Fibre£229
YTL8383 Carbon Fibre£259
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You pay £469

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PENTAX Flashguns: AF 540FGZ £349.99, AF 360FGZ £219.99

Flashguns: 24 AF-1 £54.95, 44 AF-1 £129, 52 AF-1 £199, 58 AF-2 £249

Macro flash: 15 MS-1 £295.99

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PRINTER INK CARTRIDGES



EPSON

COMPATIBLE & ORIGINAL INK



At Premier Ink Supplies, we stock two types of cartridges for Epson printers - **Originals**, which are made by Epson, and **Compatibles**, which are made by a UK company called **Jet Tec**. Using **Jet Tec Compatibles** is a way of saving money, without compromising on the quality of your prints. Here're the results from two independent ink tests that agree...

Digital
PHOTOGRAPHY

Ink Test Winner



"Jet Tec's colours were superb, with single greys and blacks very close to Epson ...so Jet Tec wins!"
- Total Digital Photography Magazine

"What we're looking at here is not only the best choice of ink for the R300 printer, but also the best ink in this group test, period. There's just no getting away from the superb combination of performance and pricing"
- Computer Upgrade Magazine

Cartridge Code:	Originals:	Jet Tec Compatibles:	Suitable EPSON Printers:
T007 Black	£29.99 16ml	£3.99 20ml, 3 for £10.99	Photo 790, 870, 890, 895, 900, 915, 1290
T008 Colour	£23.99 46ml	£4.99 50ml, 3 for £13.99	Photo 790, 870, 890, 895, 915
T009 Colour	£29.99 68ml	£4.99 70ml, 3 for £13.99	Photo 900, 1270, 1290
T026 Black	£39.99 16ml	£3.99 20ml, 3 for £10.99	Photo 810, 830, 830u, 925, 935
T027 Colour	£29.99 46ml	£4.99 50ml, 3 for £13.99	
T0341-T0347 Set of 7	£126.99 set of 7	Check Website.	Photo 2100
T0341/8, each	£15.99 17ml	Check Website.	Chameleon Inks
T0342/3/4, each	£18.99 17ml	Check Website.	
T0345/6/7, each	£18.99 17ml	Check Website.	
T0441-T0454 Set of 4	£49.99 set of 4	£14.99, 3 sets for £42.99	C64, C66, C84, C86, CX3600/3650, CX6400, CX6600
T0441 Black	£21.99 13ml	£4.99 21ml, 3 for £13.99	Parasol Inks
T0452/3/4, each	£11.99 8ml	£3.99 21ml, 3 for £10.99	R200, R220, R300, R320, R340
T0481-T0486 Set of 6	£69.99 set of 6	£19.99, 3 sets for £56.99	RX500, RX600, RX620, RX640
T0481/2/3, each	£16.99 13ml	£3.99 21ml, 3 for £10.99	Seahorse Inks
T0484/5/6, each	£16.99 13ml	£3.99 21ml, 3 for £10.99	Photo R800, R1800
T0540-T0549 Set of 8	£109.99 set of 8	£35.99, 3 sets for £99.99	Frog Inks
T0540 Gloss	£8.99 13ml	£3.99 21ml, 3 for £13.99	
T0541/2/3/4, each	£14.99 13ml	£4.99 21ml, 3 for £13.99	Photo R240, R245, RX420, RX425, RX520, RX525
T0547/8/9, each	£14.99 13ml	£4.99 21ml, 3 for £13.99	Duck Inks
T0551-T0554 Set of 4	£34.99 set of 4	£14.99, 3 sets for £42.99	Photo R2400
T0551 Black	£8.99 8ml	£3.99 21ml, 3 for £10.99	Lilly Inks
T0552/3/4, each	£8.99 8ml	£3.99 21ml, 3 for £10.99	
T0591-T0599 Set of 8	£99.99 set of 8	Check Website.	D88, D88, DX3800/3850, DX4200/4250, DX4800/4850
T0591/2/3, each	£12.99 13ml	Check Website.	Teddy Bear Inks
T0594/5/6, each	£12.99 13ml	Check Website.	S20, S21, SX100/105/110/115/200/205/210/215
T0597/8/9, each	£12.99 13ml	Check Website.	SX400/405/415/515, D78/92/120, B40W, BX300
T0611-T0614 Set of 4	£34.99 set of 4	£14.99, 3 sets for £42.99	DX4000/4400/5000/6000/7000/7400/8400/9400
T0611 Black	£8.99 8ml	£4.99 21ml, 3 for £13.99	Photo 1400
T0612/3/4, each	£8.99 8ml	£3.99 21ml, 3 for £10.99	Owl Inks
T0711-T0714 Set of 4	£34.99 set of 4	£14.99, 3 sets for £42.99	Photo P50, PX650/660/700W/710W/720WD, PX730WD/800FW/810FW/830FW/830FWD
T0711 Black	£8.99 7.4ml	£3.99 13ml, 3 for £10.99	R265/285/360, RX560/585/685
T0712/3/4, each	£8.99 5.5ml	£3.99 13ml, 3 for £10.99	Photo R1900
T0791-T0796 Set of 6	£74.99 set of 6	Check Website.	Flamingo Inks
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T0794/5/6, each	£12.99 10ml	Check Website.	
T0801-T0806 Set of 6	£51.99 set of 6	£19.99, 3 sets for £57.99	
T0801/2/3, each	£8.99 7.4ml	£3.99 13ml, 3 for £10.99	
T0804/5/6, each	£8.99 7.4ml	£3.99 13ml, 3 for £10.99	
T0870-T0879 Set of 8	£74.99 set of 8	Check Website.	
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T0961/2/3/4/5, each	£9.99 11.4ml	Check Website.	
T0966/7/8/9, each	£9.99 11.4ml	Check Website.	
T1281-T1284 Set of 4	£29.99 set of 4	£14.99 set of 4	
T1281 Black	£7.99 5.9ml	£4.99 13ml	
T1282/3/4, each	£7.99 3.5ml	£3.99 10ml	
T1291-T1294 Set of 4	£42.99 set of 4	£16.99 sets of 4	
T1291 Black	£10.99 11.2ml	£5.49 16ml	
T1292/3/4, each	£10.99 7ml	£4.49 13ml	
T1571-9, each	£20.99 25.9ml each or £164.99 set of 8		
T1591-9, each	£14.99 17ml each or £107.99 set of 8		
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No.16 Black	£7.99 5.4ml	£4.99 18ml	
No.16 C/M/Y, each	£5.99 3.1ml	£3.99 13ml	
No.16XL Set of 4	£44.99 set of 4	£14.99 set of 4	
No.16XL Black	£14.99 12.9ml	£4.99 18ml	
No.16XL C/M/Y, each	£11.99 6.5ml	£3.99 13ml	
No.18 Set of 4	£22.99 set of 4	£14.99 set of 4	
No.18 Black	£7.99 5.2ml	£4.99 18ml	
No.18 C/M/Y, each	£5.99 3.3ml	£3.99 13ml	
No.18XL Set of 4	£46.99 set of 4	£14.99 set of 4	
No.18XL Black	£14.99 11.5ml	£4.99 18ml	
No.18XL C/M/Y, each	£11.99 6.6ml	£3.99 13ml	
No.24 Set of 6	£44.99 set of 6		
No.24 B/L/C/L/M, each	£7.99 5.1ml		
No.24 C/M/Y, each	£7.99 4.6ml		
No.24XL Set of 6	£69.99 set of 6		
No.24XL B/L/C/L/M, each	£11.99 9.8ml		
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No.26 Set of 4 (no PB)	£30.99 set of 4		
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No.26 Photo Black	£7.99 4.7ml		
No.26 C/M/Y, each	£7.99 4.5ml		
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No.26XL Black	£14.99 12.1ml		
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If you cannot find the ink cartridges for your printer, please check our website, or give us a call, and we'll do our best to help. We stock what is probably the UK's largest range of ink cartridges and photo paper, including wide format ink cartridges and roll papers.



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PG40 Black 28ml	£13.99
PG50 Black 28ml	£12.99
PG510 Black 11.5ml	£14.99
PG512 Black 18ml	£13.99
PG540XL Black 21ml	£12.99
CL38 Colour 12ml	£12.99
CL41 Colour 16ml	£16.99
CL51 Colour 24ml	£14.99
CL512 Colour 11.5ml	£15.99
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PGI29 Set of 12	£269.99
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PGI72 Set of 10	£99.99
PGI520 Black 19ml	£10.99
CL1521 B/C/M/Y/GY 9ml	£4.99
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NB-10L for Canon	£12.99
BP-511 for Canon	£12.99
LP-E5 for Canon	£12.99
LP-E6 for Canon	£29.99 £19.99
LP-E8 for Canon	£15.99
LP-E10 for Canon	£12.99
NP40 for Fuji	£9.99
NP45 for Fuji	£9.99
NP50 for Fuji	£9.99
NP95 for Fuji	£9.99
NP140 for Fuji	£12.99
NP150 for Fuji	£19.99
NP400 for Minolta	£12.99
EN-EL1 for Nikon	£9.99
EN-EL3/3A for Nikon	£9.99
EN-EL3E for Nikon	£14.99
EN-EL5 for Nikon	£9.99
EN-EL9 for Nikon	£12.99
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D-Li90 for Pentax	£12.99
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NP-FM500H for Sony	£19.99
NP-FH50 for Sony	£19.99
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Many more batteries in stock!

Battery Grips

A range of professional battery grips for Hahnel. All can take two Li-ion batteries for double the battery power. AA battery compartment and/or vertical shutter release and/or infrared remote, depending on model.

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For Canon 7D:	£99.99
For Canon 30/40/50D:	£59.99
For Canon 60D:	£69.99
For Canon 450/500D:	£99.99
For Canon 550D:	£69.99
For Canon 600/650D:	£99.99
For Canon 1000D:	£69.99
For Nikon D80/D90:	£59.99
For Nikon D800/D800E:	£99.99
For Nikon D7000:	£99.99

KOOD

P-Type Filter System

The P-Type square/rectangular filter system consists of three parts:

- 1) An adapter ring that screws onto the front of your lens
- 2) A filter holder clips onto the ring
- 3) One or more P-Type (84mm wide) filters

P-Type Adapter Rings	
49mm Adapter Ring	£4.99
52mm Adapter Ring	£4.99
55mm Adapter Ring	£4.99
58mm Adapter Ring	£4.99
62mm Adapter Ring	£4.99
67mm Adapter Ring	£4.99
72mm Adapter Ring	£4.99
77mm Adapter Ring	£4.99
82mm Adapter Ring	£4.99

P-Type Holders	
Holder Standard	£5.99
Holder Wide Angle	£6.99
Hood Modular	£6.99

P-Type Filter Wallet	
A smooth cushioned filter wallet, to protect and store up to 8 P-Type filters	£9.99

P-Type Six-Piece Neutral Density Filter Kit	
	£49.99
	£43.99

Neutral Density filters have a multitude of uses - from increasing detail in landscapes and reducing over-exposed skies, to creating stunning motion scenes by reducing shutter speeds. Here's a kit which includes all the popular ND filters, and everything you need to get started! The kit contains: 1x ND2 Filter, 1x ND2 Soft Graduated Filter, 1x ND4 Filter, 1x ND4 Soft Graduated Filter, 1x P-Type Filter Holder, 1x P-Type Adapter Ring of your choice (49-82mm).

We also stock Z-Pro (100mm) and A-Type (67mm) filters, holders and adapter rings

LENS HOODS & CAPS

Bayonet-Fit Lens Hoods

ES-62 Canon 50/1.8	£9.99
ES-7111 Canon 50/1.4	£9.99
ET-60 Canon 75-300/4-5.6	£9.99
ET-65B Canon 70-300/4-5.6	£9.99
ET-67 Canon 100/2.8 Macro	£9.99
ET-67B Canon 60/2.8	£9.99
EW-60C Canon 18-55 IS	£7.99
EW-73B Canon 17-85 IS	£9.99
EW-78BII Canon 28-135 IS	£9.99
EW-78D Canon 18-200 IS	£9.99
EW-78E Canon 15-85 IS	£12.99
EW-83E Canon 17-40/4.0	£12.99
EW-83J Canon 17-55/2.8	£12.99
HB-25 Nikon 24-85, 24-120	£12.99
HB-37 Nikon 55-200 VR	£7.99
HB-45 Nikon 18-55 VR	£7.99
SH-006 Sony 18-70/3.5-5.6	£9.99
SH-108 Sony 18-55/3.5-5.6	£9.99

A comprehensive range of aftermarket matt black bayonet-fit lens hoods for Canon, Nikon and Sony lenses.

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58mm Shaped Petal Hood	£6.99
62mm Shaped Petal Hood	£7.99
67mm Shaped Petal Hood	£7.99
72mm Shaped Petal Hood	£9.99
77mm Shaped Petal Hood	£9.99
82mm Shaped Petal Hood	£11.99
46mm Rubber Hood	£3.99
52mm Rubber Hood	£3.99
55mm Rubber Hood	£3.99
58mm Rubber Hood	£3.99
62mm Rubber Hood	£4.99
67mm Rubber Hood	£5.99
72mm Rubber Hood	£5.99
77mm Rubber Hood	£5.99

Lens Caps

30mm, 37mm, 40mm, 43mm, 46mm, 49mm, 52mm, 55mm, 58mm, 62mm, 67mm, 72mm, 77mm, 82mm, 86mm, 95mm	£3.99 each
--	-----------------------

We also stock a range of body caps and rear lens caps for Canon, Nikon, Olympus, Sony, Pentax, etc

SPIRIT LEVELS

Bubble Spirit Levels

These simply mount onto the hot shoe of a DSLR camera.

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Green Clean Sensor Cleaning Kit inc. Mini Vacuum, swabs, wipes	£64.99
Green Clean Sensor Cleaning Wet'n'Dry Swabs pack of 4	£15.99

LENSPEN

Lens Cleaning	
LensPen Original Carbon-tipped pen with built-in cleaning brush	£7.99
LensPen DSLR Pro Kit Cloth, Pen, FilterKlear, MicroPro	£24.99 £17.99
Spudz 6x6 Washable microfibre cloth with neoprene pouch and belt/clip	£4.99

Massive range of cleaning equipment on our website and in stock.

KOOD

Japanese Optical Glass Filters
Coated to reduce lens flare and reflections.

UV / Haze Filters

Used both to protect the lens of your camera, and to absorb ultraviolet rays that can cause photos to appear hazy.

46mm UV / Haze	£6.99
52mm UV / Haze	£6.99
55mm UV / Haze	£7.99
58mm UV / Haze	£8.99
62mm UV / Haze	£9.99
67mm UV / Haze	£10.99
72mm UV / Haze	£11.99
77mm UV / Haze	£14.99
82mm UV / Haze	£17.99
86mm UV / Haze	£22.99

More sizes in stock, from 24 to 86mm!

Skylight Filters

Similar to a UV filter, but with a pinkish tint to add a gentle warmth to your photos.

52mm Skylight	£7.99
55mm Skylight	£8.99
58mm Skylight	£9.99
62mm Skylight	£10.99
67mm Skylight	£11.99
72mm Skylight	£13.99
77mm Skylight	£16.99

More sizes in stock, from 30 to 105mm!

Close Up Filter Sets

Sets containing three filters, rated at +1, +2, and +4 diopters. Increases close up / macro ability of the lens they are fitted to.

52mm Close-Up Set	£26.99
55mm Close-Up Set	£29.99
58mm Close-Up Set	£34.99

More sizes in stock, from 46 to 77mm!

Lens Converters

Ideal for converting your kit lens to a 2.0X telephoto or 0.5X wide angle lens.

52mm 2.0X or 0.5X converter	£35.99
55mm 2.0X or 0.5X converter	£37.99
58mm 2.0X or 0.5X converter	£39.99

More sizes in stock, from 46 to 82mm!

Light Craft Workshop Filters

Amazing but true - by simply rotating the outer element of the filter, the amount of light passing through the filter can be adjusted from a 2 stop to an 8 stop reduction. The FaderND filter is constructed from two opposing sheets of polarizing glass, the outer sheet mounted in an independently rotating frame. The new Mk II version features both improved optical elements, and a thinner, conical shaped frame to reduce the chance of vignetting. Also available is the highly acclaimed ND500MC fixed 9-stop filter with ultra-thin frame for wide angle photography.

Genuine LightCraftWorkshop filters - beware of imitations!

STEPPING RINGS

Step-Up and Step-Down Rings

Stepping rings are used to "step-up" or "step-down" from one filter thread size to another.

34-37mm	52-55mm	58-55mm	67-62mm
37-43mm	52-58mm	58-62mm	67-77mm
43-46mm	55-52mm	58-67mm	72-67mm
46-49mm	55-58mm	62-67mm	72-77mm
49-52mm	58-52mm	62-72mm	77-72mm

All just £4.99 each!



This is just a tiny fraction of our range. Over 160 different sizes in stock, from 25mm to 105mm. Probably the largest selection in the UK!

MACRO PHOTOGRAPHY

Reversing Rings - £12.99

These fit to the camera body, between the camera and lens, leaving a screw thread to enable the reverse mounting of lenses. A way of obtaining a high reproduction ratio, allowing extreme Macro photography.

Canon: 52, 55, 58, 62, 67mm	
Nikon: 52, 55, 58, 62, 67mm	
Pentax K: 52, 55, 58, 62, 67mm	
Olympus: 52, 55, 58, 62, 67mm	
Sony: 52, 55, 58, 62, 67mm	

Coupling Rings - £11.99

Used to attach two lenses together via their filter threads, achieving high magnifications

52-52mm, 52-55mm, 52-58mm	
55-55mm, 55-58mm, 58-58mm	

T2 Mounts - £12.99

Canon, Nikon, Sony, Oly, Pentax

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Extension Tubes

Good reasons to shop at MIFSUD PHOTOGRAPHIC

Canon

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17-40 F4 USM L	£629
20 F2.8 USM	£379
24 F2.8 IS U	£589
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24 F3.5 L TSE MKII	£1729
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24-70 F4 L IS U unboxed	£1099
24-105 F4 L IS USM unboxed	£749
28 F1.8 USM	£389
28 F2.8 IS U	£579
35 F1.4 L USM	£1129
35 F2 IS USM	£639
40 F2.8 IS U	£169
50 F1.2 L USM	£1199
50 F1.4 U	£289
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70-200 F4 L USM	£499
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85 F1.8 U	£319
100 F2.8 IS L USM macro	£719
100 F2.8 Macro USM	£419
100-400 F4.5/5.6 IS L USM	£1349
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18-300 F3.5/5.6 G ED VR DX	£689
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40 F2.8 AFS G DX	£199
55-300 F4.5/5.6 G VR DX	£289
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18-35 F3.5/4.5 G AFS	£649
18-55 F3.5/5.6 VR	£99
20 F2.8 AF-D	£489
24-70 F2.8 G ED AFS	£1239
24-85 F3.5/4.5 G ED VR	£429
24-120 F4 G ED VR	£849
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35 F1.4 G	£1399
50 F2 AF-D	£289
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50 F1.8 G	£169
50 F1.8 AF-D	£129
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70-200 F2.8 VR II	£1649
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70-300 F4.5/5.6 VR	£418
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A COLLECTOR'S LIFE FOR ME

When Tony Kemplen resolved to use a different film camera each week, he discovered a treasure trove of lost gems

THE INSTAMATIC, or 126 film format, is 50 years old this year. I'd like to be able to wish it a happy birthday, but it's been dead and buried for nearly a decade. Of course, many of the cameras live on, although they are hardly enjoying a fulfilling life, being more akin to zombies – living dead deprived of their source of sustenance. Unlike the 126's little brother, the 110 Pocket Instamatic, which has returned from the grave, those of us who wish to use our 126 cameras have to rely on long-expired stock, picked up sporadically at car-boot sales and charity shops. Or perhaps you can find something on eBay, where occasionally one of the legion of Instamatic cameras listed comes in its box complete with unused film.

Few families in the 1970s and '80s would have been without an Instamatic camera. The format was introduced to make 35mm film more foolproof. There was no need to thread a film leader at the beginning, or rewind at the end. Instead, you simply dropped the cartridge into the back of the camera and away you went. Needless to say, the bulk of 126 cameras were very basic, usually with no controls to fox the novice photographer. However, a few more sophisticated models were made, even some single-lens reflexes.

Although the film is 35mm wide (and therefore can be developed in a standard developing tank), that's where the similarity ends. Instead of the 35mm film's twin perforations running along each film edge, the 126 format has only a single perforation per frame, used by the camera to detect when the requisite amount of film has been wound for the next exposure – and in some models, to set the shutter. The single perforation leaves more room for an image, so while the standard 35mm frame is 24mm tall by 36mm wide, the 126 negative is 28mm square. Some people



have successfully reloaded 126 cartridges with 35mm film, but it's a fiddly process that only works for some cameras, and fails to give the full height of the negative as the perforations get in the way.

The Ricoh Auto 126 is a curious beast. I can't remember where I got it from, but it was most likely a car-boot sale. One of its key features is a built-in clockwork motor, which allows you to shoot in quick succession. It also has a 35mm f/2.8 Rikenon lens and a fully automatic exposure system driven by a selenium cell. Selenium meters operate without batteries. The photocell gives out a voltage dependent on ambient light levels, so the camera is spared the risk of damage from a leaking long-forgotten battery, although the Ricoh 126 does have a compartment for an obsolete 15V cell to fire a flashbulb. Luckily, the previous owner had removed it, or maybe they never used the flash.

The motor drive is a bit of a gimmick, in my opinion. The first 126 cartridges held 12 or 20 exposures, and although 24 exposures came later, I'm not sure how often the holiday snapper would have wanted to rush through this limited supply. Worse still, the clockwork advance ensures that the shutter is always set and ready for use, and in the absence of a shutter-release lock, it's all too easy to lose a frame when taking the camera in or out of a bag.

I took care not to fall into this trap when I took the Ricoh with me on a trip to Haworth in West Yorkshire, where I was reminded that photographers are not alone in cherishing technology that is past its sell-by date, as this shot of a steam locomotive (left) on the Keighley and Worth Valley Railway shows. It was a relief to find that the Fujicord film that I used, which expired in 1994, hadn't run out of steam, either.

Incidentally, while writing this column, rumours have started to surface that the Ferrania plant in Italy is to resume film production, and may even dust down its 126 assembly line. That would be good news, but I'm not holding my breath. **AP**



BOTH PICTURES © TONY KEMPLEN

To read more about Tony's 52 cameras project, visit <http://52cameras.blogspot.com>. To see more photos from the Ricoh Auto 126, visit www.flickr.com/photos/tony_kemplen/sets/72157633931531218

Editorial

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